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CONCHOLOGIA INDICA.

BY

LIEUT.-COLONEL H. H. GODWIN-AUSTEN, F.R.S., F.R.G.S., F.Z.S., &c.,

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PLATE LXIII.

[Part VII.—*October* 1897.]

Fig. 1, 1 *a*, 1 *b*.	Alycaeus busbyi, G.-A., × 4.	Andaman.
2, 2 *a*.	—— rubinus, G.-A., × 4.	Upper Burmah.
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4, 4 *a*.	—— subculmen, G.-A., × 7.	Naga Hills.
5, 5 *a*.	—— birugosus, G.-A., × 7.	Khasi and Munipur Hills.
6.	—— granum, G.-A., × 7.	Eastern Naga Hills.
7, 7 *a*, 7 *b*.	—— ochraceus, G.-A., × 7.	Upper Burmah.

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ALYCÆUS.

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PLATE LXIV.

[Part VII.—*October* 1897.]

Fig. 1.	DIPLOMMATINA DECOROSA, G.-A., × 7.		Anghami Naga Hills.
2.	—— AMBIGUA, G.-A., × 7.		Munipur Hills.
3, 3 *a*.	—— GAROENSIS, G.-A., × 7.		Garo Hills.
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9.	—— BUTLERI, G.-A., × 7.		Munipur Hills.

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DIPLOMMATINA

(all enlarged seven times)

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PLATE LXV.

[Part VII.—*October* 1897.]

Fig. 1, 1 *a*.	Diplommatina dohertyi, G.-A.	Margarita, Eastern Assam.
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5.	—— khunhoensis, G.-A.	Khunho Peak, Naga Hills.
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7, 7 *a*.	—— compacta, G.-A.	Munipur Hills.
7 *b*.	—— compacta, G.-A.	Asalu, North Cachar Hills.
8, 8 *a*.	—— jatingana, G.-A.	North Cachar Hills.

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DIPLOMMATINA

(ALL ENLARGED SEVEN TIMES).

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PLATE LXVI.

[Part VII.—*October* 1897.]

Fig.	1.	DIPLOMMATINA UNICRENATA, G.-A., × 7.	Eastern Naga Hills.
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	3, 3 *a*.	—— SUBRUBELLA, G.-A., × 7.	Japvo Peak, Naga Hills.
	4.	—— SUBTILIS, G.-A., × 12.	Margarita, Assam.
	4 *a*.	—— ——, × 7.	
	5.	—— DELICATA, G.-A., × 12.	Eastern Naga Hills.
	6.	—— MUNIPURENSIS, G.-A., × 12.	North Munipur Hills.
	7.	—— VENUSTULA, G.-A., × 7.	Japvo Peak.
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	10.	—— CONCINNA, G.-A., × 12.	Naga Hills.
	11, 11 *a*.	—— JAPVOENSIS, G.-A., × 7.	Japvo Peak, Anghami Naga Hills.
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DIPLOMMATINA.

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PLATE LXVII.

[Part VII.—*October* 1897.]

Fig. 1. Otopoma naticoides, Récluz, ♀, × 1·2. Socotra.

1 *a.* —— ——: removed from shell, right side.

1 *b.* —— ——: viewed from front, showing divided foot, × 2·6.

2 —— ——: branchial chamber with side removed, showing position of the male organ and rectum, × 1·4.

2 *a.* —— ——: the same parts further enlarged, showing the anal aperture, × 4·5.

2 *b.* —— ——: the lower side of male organ, showing the sperm-opening.

3. —— ——, ♀: showing the anal aperture and position of female orifice (*f.or.*).

4. —— ——: part of radula, × 58.

4 *a.* —— ——: first tooth on right side, × 163.

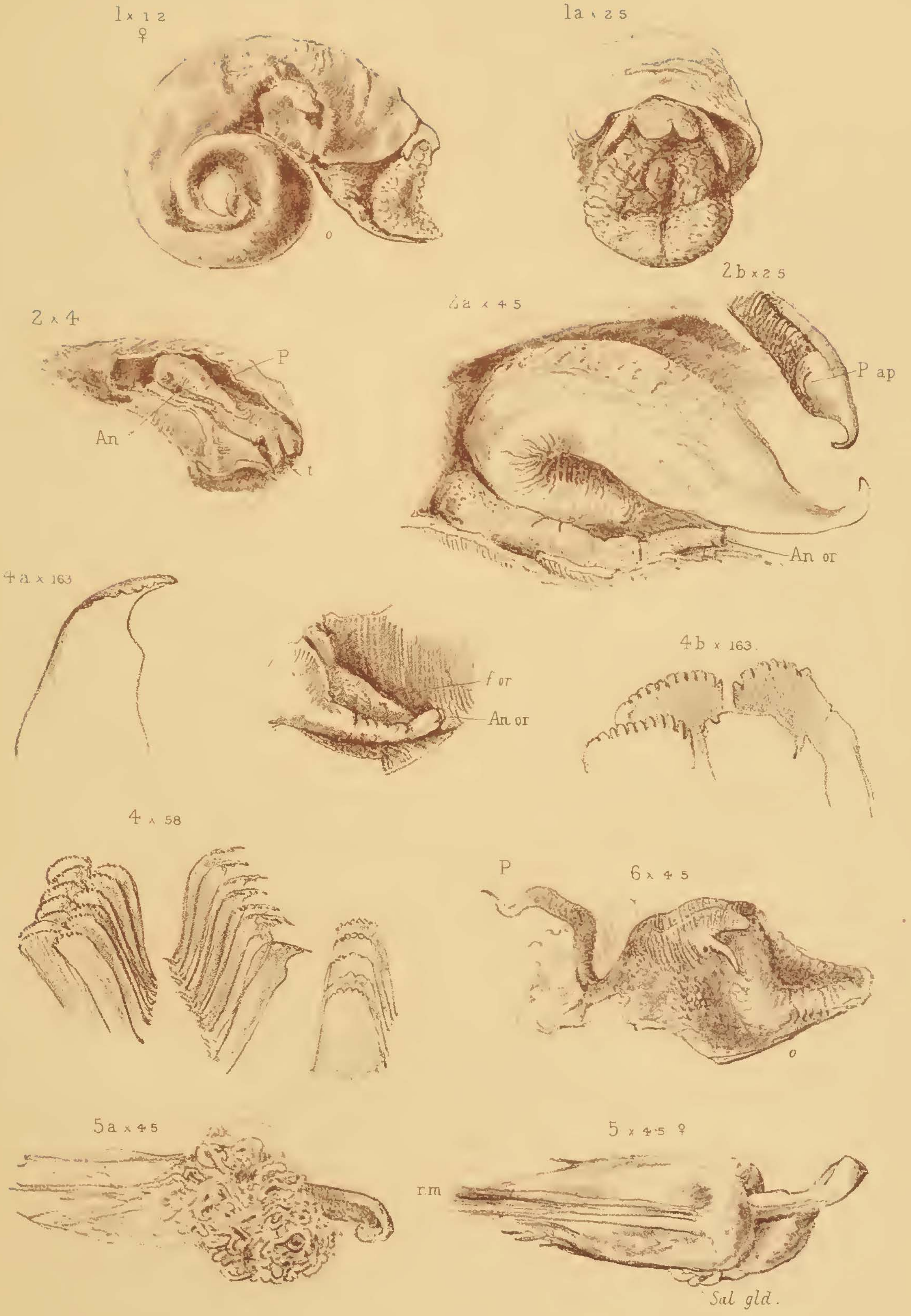
4 *b.* —— ——: second and third tooth on right side, × 163.

5. —— ——: buccal mass viewed from left side, × 4·5.

5 *a.* —— ——: buccal mass viewed from below, showing the salivary glands.

6. —— clathratulum, Récluz, var. minor, G.-A., × 4·5. Socotra.
Animal from spirit-specimen, right side view, showing the position of the penis.

P., penis; *An.*, anus; *o.*, operculum; *An.or.*, anal orifice; *f.or.*, female orifice; *t.*, tentacula; *P.ap.*, penis aperture; *r.m.*, retractor muscle; *sal.gld.*, salivary gland.



H.H. Godwin-Austen, del et lith.

OTOPOMA

Maclure & Co Imp

PLATE LXVIII.

[Part VII.—*October* 1897.]

CYCLOPHORUS (NATALIA) WAHLBERGI, Benson. Natal.

Fig. 1. Animal viewed from right side, ♂, × 4.

1 *a*. Ditto, view from front and above, showing position of the male organ and anal orifice, × 4.

1 *b*. Ditto, front view of head, showing form of mouth, × 4.

1 *c*. Ditto, scar of the operculum, × 4.

1 *d*. Ditto, free end of the male organ, as seen on slide with transmitted light, × 12·4.

2. Operculum, exterior side, × 2·5.

2 *a*. Ditto, side view, posterior side to right hand, × 2·5.

3. Buccal plates, × 8. *p.*, posterior side; *a.r.*, anterior right side.

3 *a*. Buccal portion showing the platelets, × 275.

3 *b*. Buccal portion near the central edge, where the rows of platelets are given off, × 275.

4. Radula, × 163.

4 *a*. Ditto, × 163.

CYCLOPHORUS (CYCLOHELIX) CROCATUS, Born. Andaman Islands.

5. Animal, right side, showing position of the penis, × 4.

5 *a*. Ditto, from left side, × 4.

5 *b*. The scar of the removed operculum, × 4.

6. Operculum, exterior side, × 2·5.

6 *a*. Ditto, side view, inner side to right, × 4.

7. Buccal mass and salivary glands, × 4.

8. Radula, × 58.

o., operculum; P., male organ; *An.ap.*, anal aperture; *t.*, tentacula; *l.t.*, left tentaculum; *b.*P., base of male organ; *r.m.*, retractor muscle; *sal.gld.*, salivary gland.

H. H. Godwin-Austen, del et lith

CYCLOPHORUS

Maclure & Co Imp.

PLATE LXIX.

[Part VII.—*October* 1897.]

Fig. 1, 1 *a*.	PUPINA ARULA, Bs., from type in Benson collection, Cambridge, × 4.	Burmah.
2, 2 *a*, 2 *b*.	—— BLANFORDI, Theob., from supposed type in British Museum, × 8.	Burmah.
3, 3 *a*, 3 *b*, 3 *c*.	—— PEGUENSIS, Bs., × 4.	Kamah, Pegu.
3 *d*.	—— ——, operculum, × 12·4; under side, × 12·4.	
4, 4 *a*, 4 *b*.	—— LIMITANEUS, G.-A	Eastern Shan Plateau.
5, 5 *a*.	—— TONGUPENSIS, G.-A., × 8.	Arakan Hills.
6, 6 *a*.	—— ARTATA, × 8.	Moulmain.
6 *b*.	—— ——, another specimen, viewed from left side, × 8.	Moulmain.
7.	—— HUNGERFORDI, × 4.	Hsaddenkoo, Tenasserim.
7 *a*.	—— ——, aperture, × 8.	
8.	—— NICOBARICA, × 8.	Andaman.

H.H. Godwin-Austen, del et lith. PUPINA. Maclure & Co Imp

PLATE LXX.

[Part VIII.—*January* 1898.]

Fig. 1. CRYPTOSOMA INUSITATUM, G.-A., × 1·5. Eastern Burmah.

1 *a*. Ditto, nat. size.

2. CRYPTOSOMA PRÆSTANS, Gould, × 1·5. Moulmain.

2 *a*. Ditto, nat. size.

3. CRYPTOSOMA INUSITATUM, view of part of left side, × 1·5.

4. Ditto: the buccal mass from left side, × 4·5.

5. Ditto: jaw, × 8.

6. Ditto: central teeth of odontopore; 6 *a*, 17th to 23rd median; 6 *b*, the outermost laterals, × 196.

7. Ditto: generative organs, × 4·5. Lettering as in former Plates.

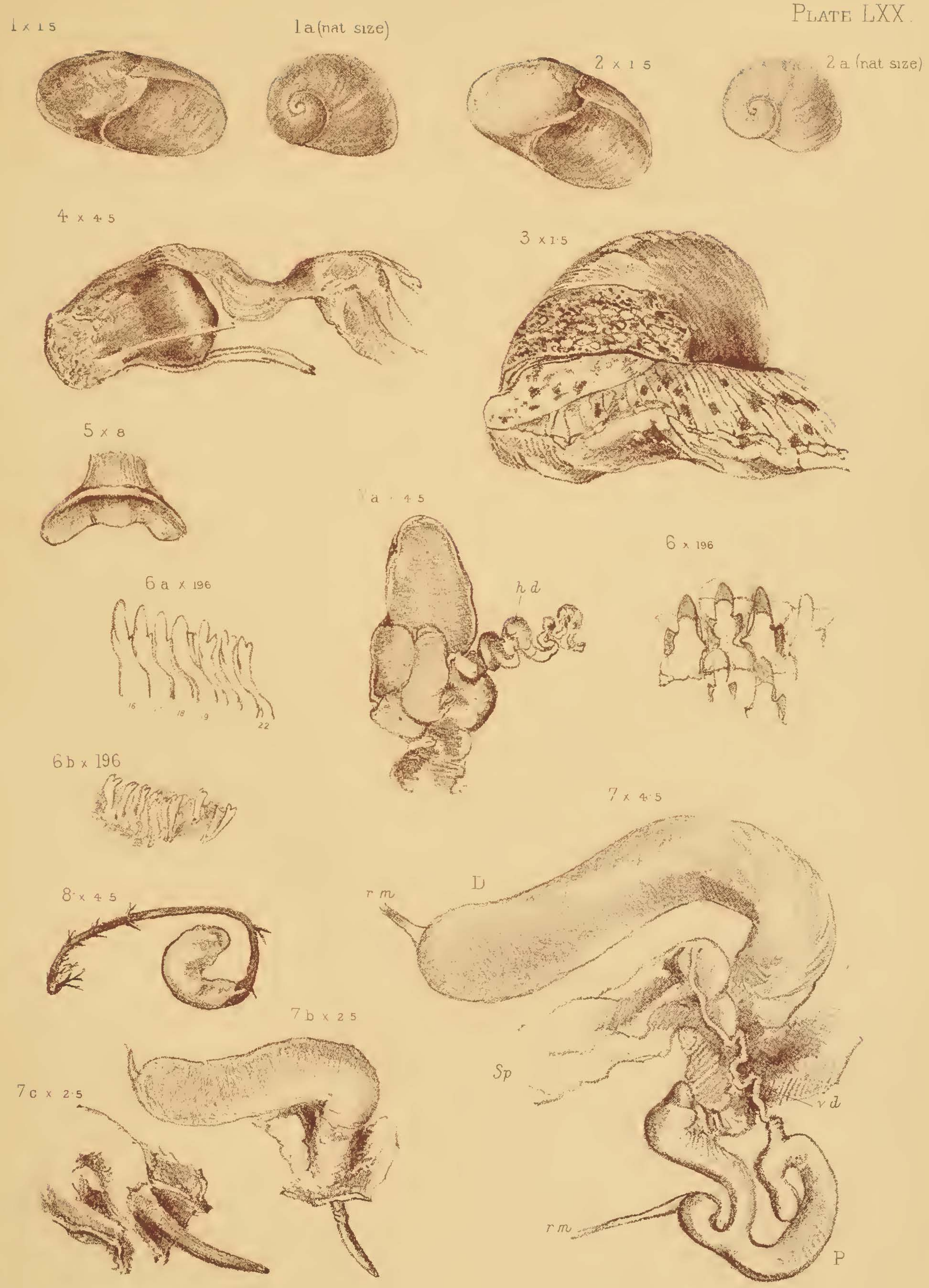
7 *a*. The albumen-gland and part of hermaphrodite duct, × 4·5.

7 *b*. The amatorial organ, × 2·5.

7 *c*. Ditto, with fleshy dart more exposed, × 4·5.

8. A spermatophore, × 4·5.

h.d., hemaphrodite duct; *r.m.*, retractor muscle; D., dart or amatorial organ; *sp.*, spermatheca; *v.d.*, vas deferens; P., male organ.



H.H. Godwin-Austen, del et lith. CRYPTOSOMA. Maclure & Co. Imp.

PLATE LXXI.

[Part VIII.—*January* 1898.]

Fig. 1. CRYPTOSOMA SIAMENSE, Haimes, × 1·5. Siam.

1 *a*. Ditto, nat. size.

2. View of part of left side, showing the left dorsal and shell-lobes, × 1·5.

2 *a*. Posterior side, foot.

3. Jaw, × 8.

4. Central teeth of odontophore, × 368.

4 *a*. 18th, 19th, and 20th median, × 368.

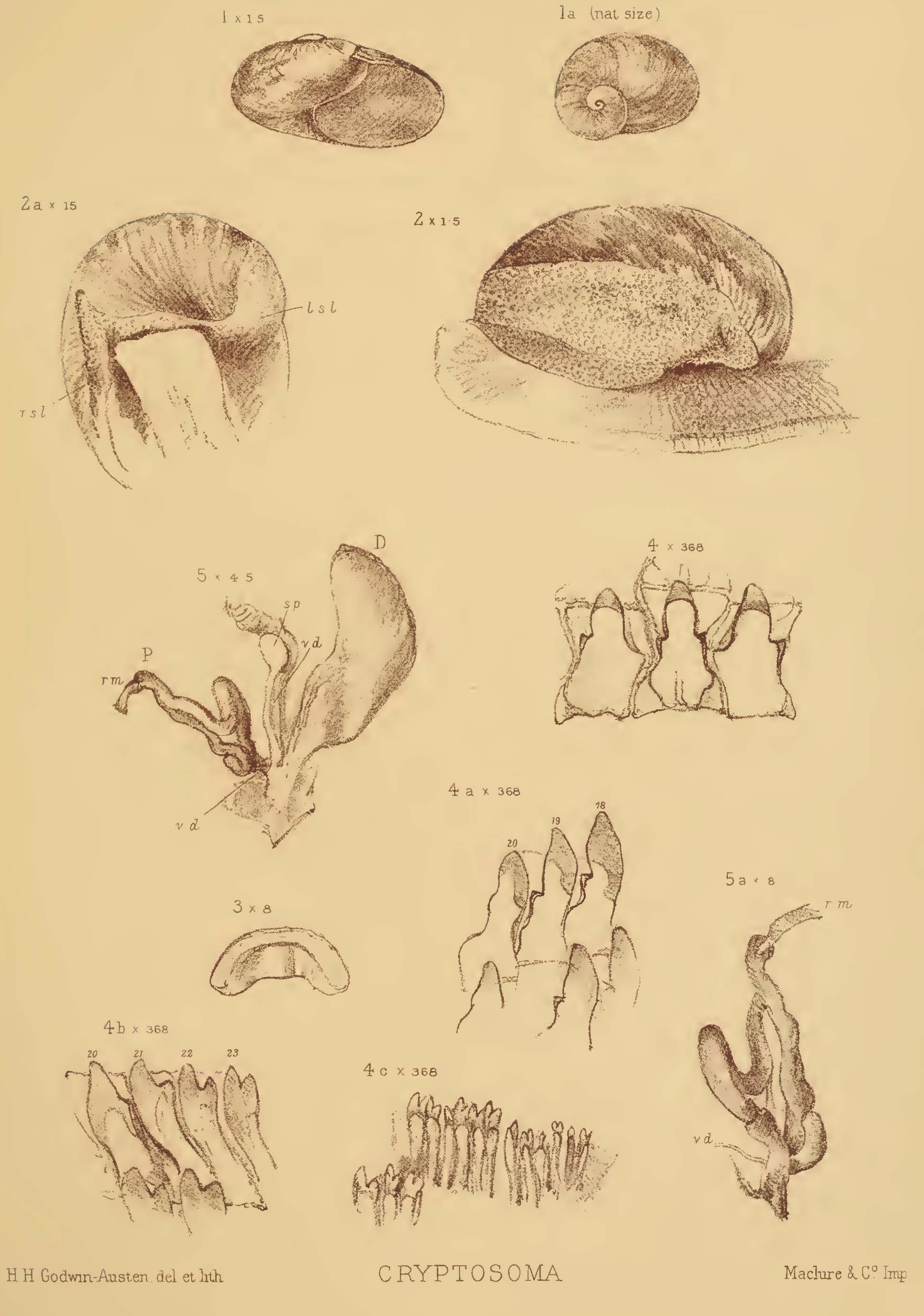
4 *b*. 20th, 21st, 22nd, and 23rd median, × 368.

4 *c*. Outermost teeth, × 368.

5. Generative organs, × 4·5.

5 *a*. The male organ, × 8.

PLATE LXXI.



H. H. Godwin-Austen, del. et lith. CRYPTOSOMA Maclure & Co. Imp.

PLATE LXXII.

[Part VIII.—*January* 1898.]

CRYPTOSOMA IMPERATOR, Gould. Hongkong.

Fig. 1. Shell, × 1·5.

1 *a*. Shell and animal, nat. size (spirit-specimen), viewed from right side.

1 *b*. Ditto, viewed from left side.

2. Animal with shell removed, viewed from right side, × 4·5

2 *a*. Ditto, viewed from the posterior side, × 4·5.

2 *b*. View showing left shell- and neck-lobes, × 4·5.

2 *c*. Mucous gland from posterior side, × 4·5.

3. Buccal mass, × 4·5.

4. Jaw, × 4·5.

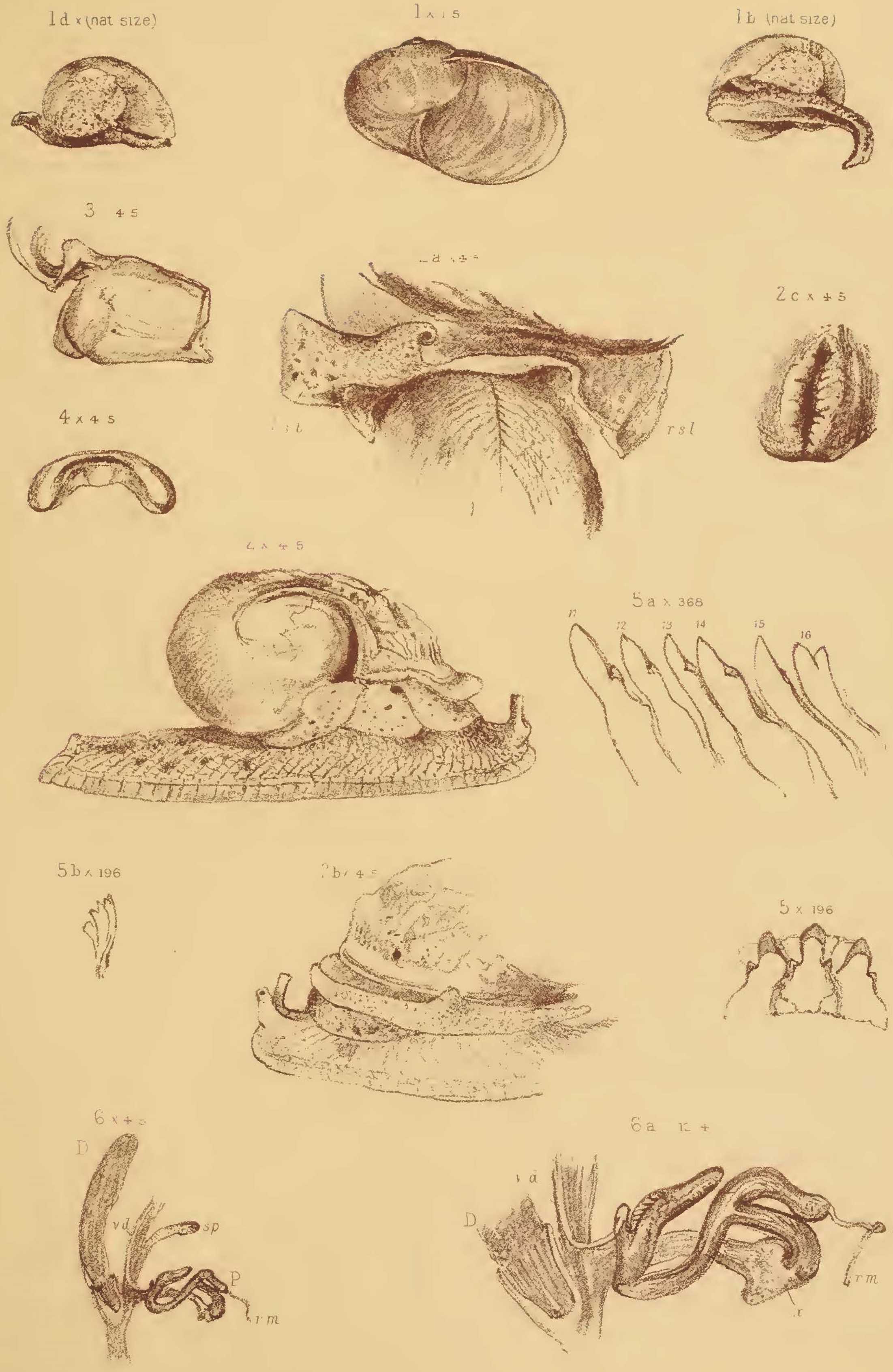
5. Central teeth of odontophore, × 196.

5 *a*. Median teeth, 11th to 16th, × 368.

5 *b*. Outer lateral teeth, × 196.

6. Generative organs, × 4·5.

6 *a*. The male organ, × 12·4. *x*, the side of the muscular sheath is here broken



H.H.Godwin-Austen del et lith

CRYPTOSOMA.

Maclure & C° Imp

PLATE LXXIII.

[Part VIII.—*January* 1898.]

Damayantia smithi, Collinge & Godwin-Austen. Borneo.

Fig. 1. Animal, from right side (from spirit-specimen), × 2·5.

1 *a*. Ditto, from above, × 2·5.

1 *b*. Ditto, from left side, × 2·5.

2. Shell, × 2·5.

3 The visceral sac, shell removed, exposed, seen from above, showing single coil, × 2·5.

4. Extremity of foot, showing mucous gland, × 8.

5. Jaw, × 12.

6. Central teeth of radula, × 368.

7. Generative organs (*sp.am.*), × 4.

7 *a*. Ovo-testes and hermaphrodite duct, × 8.

7 *b*. Portion of male organ, × 8.

7 *c*. Ditto, another view, × 8.

7 *d*. The calcareous dart in the amatorial organ, × 8.

H H Godwin Austen del et lith

DAMAYANTIA.

Maclure & C° Imp

PLATE LXXIV

[Part VIII.—*January* 1898.]

MICROPARMARION SIMROTHI, Collinge & Godwin-Austen. Borneo.

Fig. 1. Shell and part of mantle from above, × 3.

1 *a*. As seen from left side, × 3.

1 *b*. Head and fore portion of body and mantle, right side, × 4.

2. View of right side of animal, shell removed, × 4.

3. Portion of œsophagus, with salivary gland, × 4.

4. Jaw, × 4.

5. Generative organs, × 4.

5 *a*. Male organ, × 8.

5 *b*. The calcareous dart in the amatorial organ, × 12·5.

6. Generative organs of PARMARION PUPILLARIS, after Semper.

6 *a*. Calcareous dart (the " Liebesfeil "), after Semper.

6 *b*. Teeth of radula, after Semper.

H.H. Godwin-Austen. del et. lith. MICROPARMARION. Maclure & C° Imp

PLATE LXXV.

[Part VIII.—*January* 1898.]

MICROPARMARION POLLONERAI, Collinge & Godwin-Austen. Borneo.

Fig. 1. Animal, from above (spirit-specimen), × 2·4.

2. Ditto, right side, × 2·4.

3. Mucous gland, × 4·6.

4. Posterior end of visceral mass, shell removed, × 8.

5. Buccal mass and salivary glands, × 8.

6. Jaw, × 12.

6 *a*. Central teeth of radula, × 368.

6 *b*. Lateral teeth of radula, × 368.

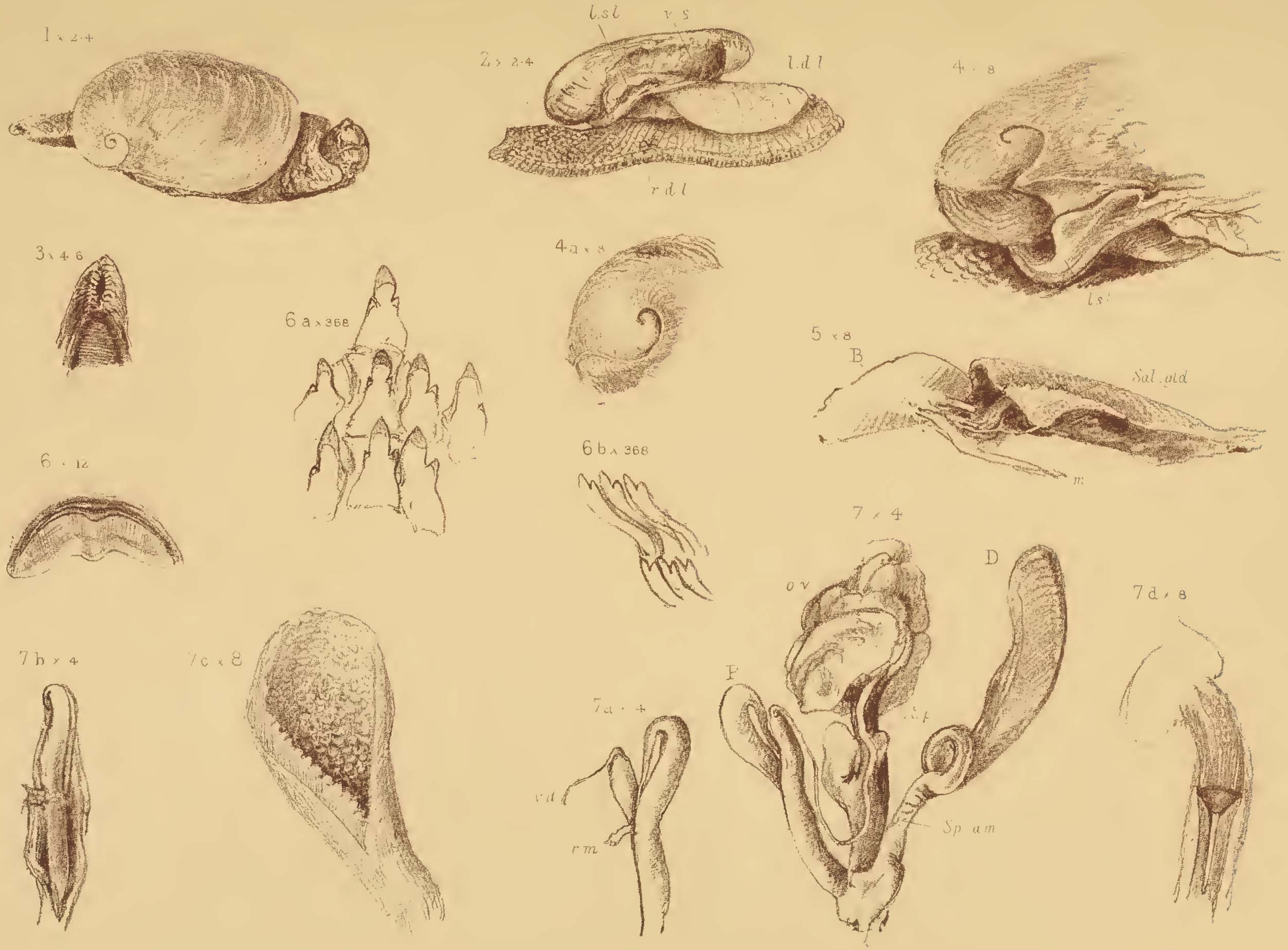
7. Generative organs, × 4.

7 *a*. Male organ, with kalk-sac, × 4.

7 *b*. Ditto, muscular sac cut open.

7 *c*. Interior of kalk-sac, showing the papillate surface, × 8.

7 *d*. The calcareous dart of the amatorial organ, × 8.



H.H. Godwin-Austen. del. et lith.

MICROPARMARION

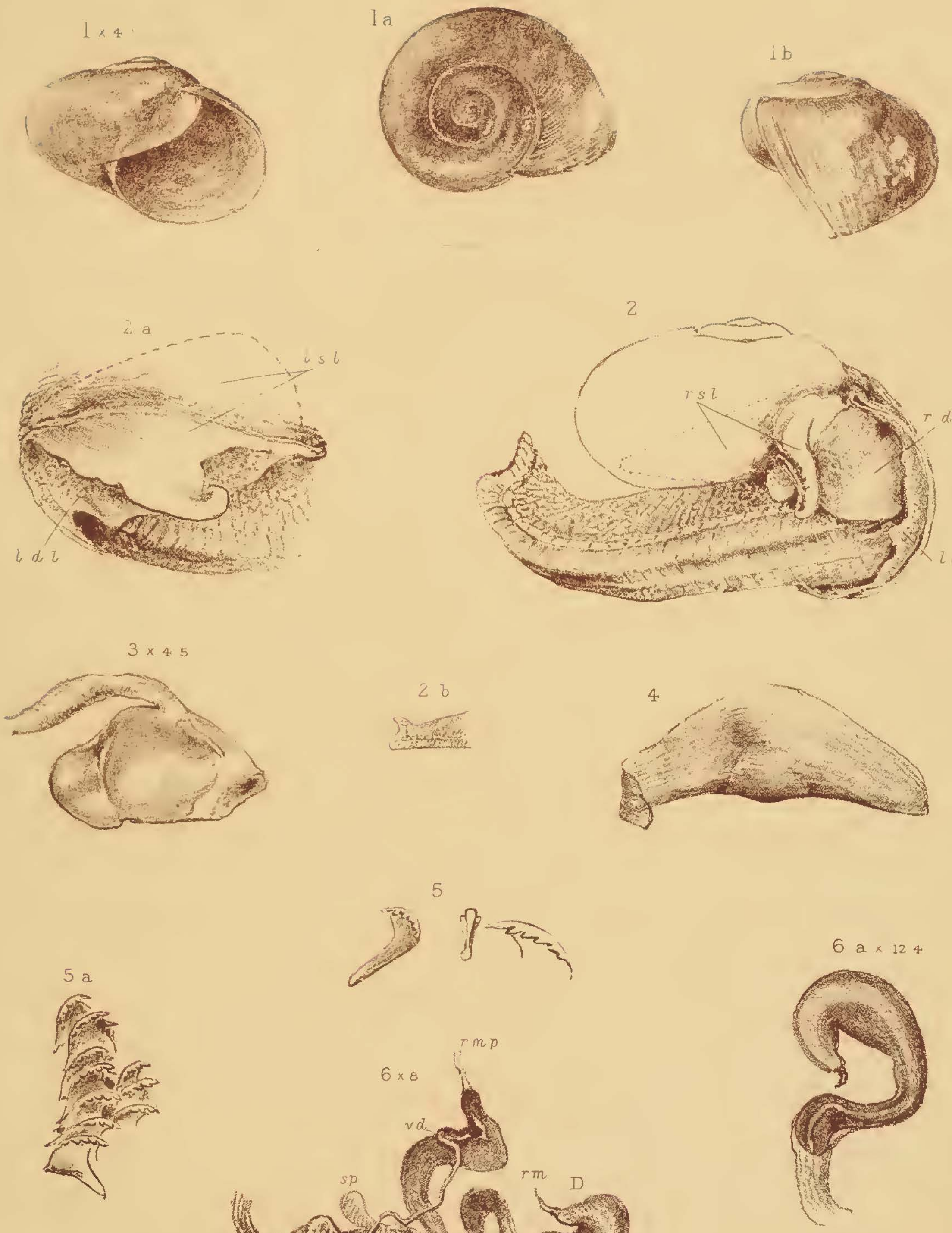
Maclure & Co. Imp.

PLATE LXXVI.

[Part VIII.—*January* 1898.]

DURGELLA LEVICULA, Benson. Tenasserim.

Fig. 1, 1 *a*, 1 *b*.	Shell, × 4.
2.	Animal, seen from right side (from spirit-specimen).
2 *a*.	Ditto, from left side, much enlarged.
2 *b*.	Extremity of foot, as in life.
3.	Buccal mass, from right side.
4.	Jaw, × 58.
5.	Centre tooth of the radula, with two laterals, very much enlarged.
5 *a*.	Lateral teeth.
6.	Generative organs, × 8.
6 *a*	The male organ, showing muscular dart, × 12·4.



H.H. Godwin-Austen, del et lith

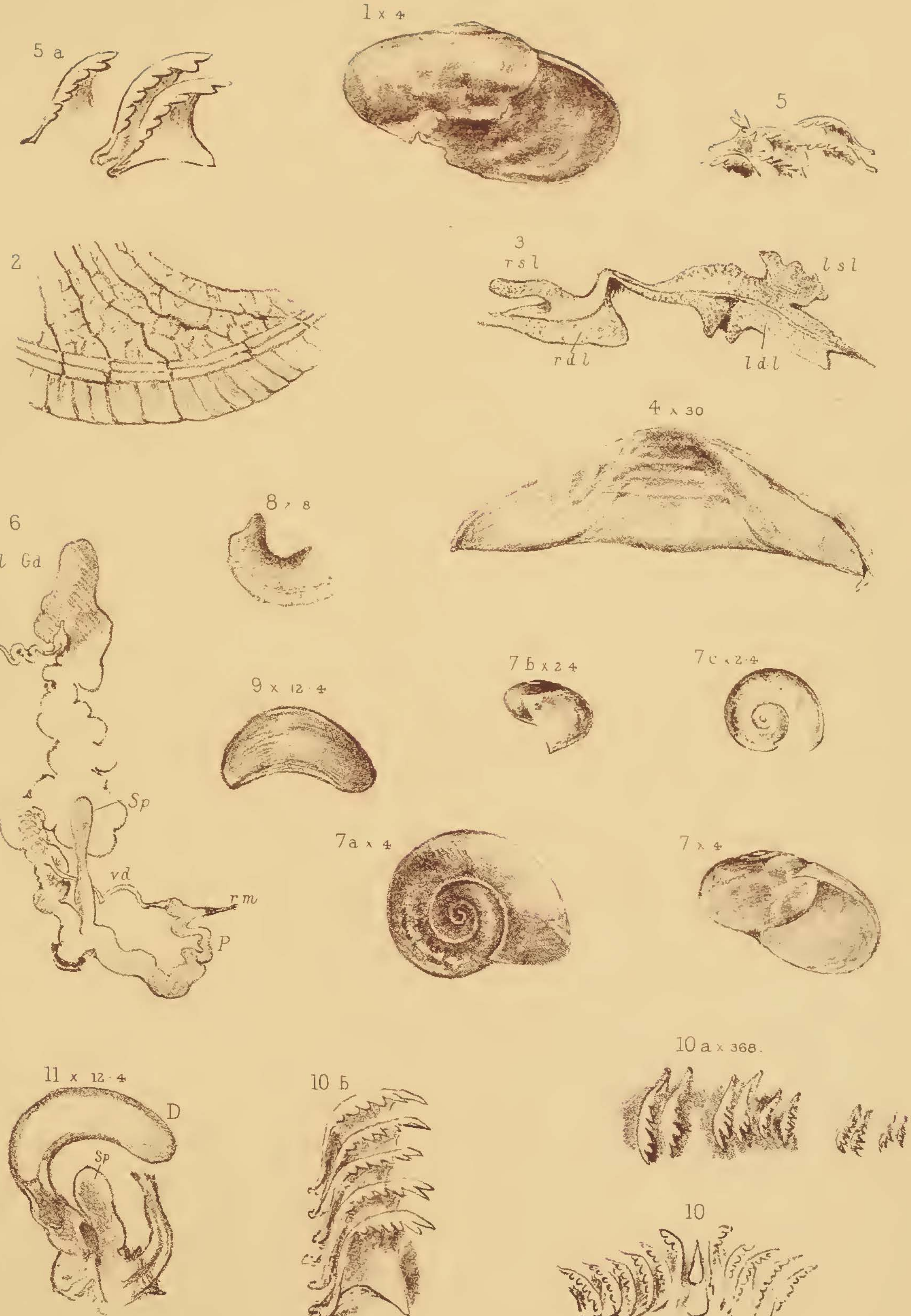
DURGELLA

Maclure & Co Imp

PLATE LXXVII.

[Part VIII.—*January* 1898.]

Fig. 1.	DURGELLA ASSAMICA, G.-A.: shell, × 4.	Durrang District, Assam.
2.	Ditto: portion of side of foot, much enlarged.	
3.	Ditto: shell and dorsal lobes detached.	
4.	Ditto: jaw, × 30.	
5.	Ditto: lateral teeth.	
5 *a*.	Ditto: lateral teeth, much enlarged.	
6.	Ditto: generative organs. Lettering as in other Plates.	
7, 7 *a*.	DURGELLA MAIRANGENSIS, G.-A., × 4.	Khasi Hills.
7 *b*, 7 *c*.	Ditto, × 2·4.	
8.	Ditto: extremity of foot.	
9.	Ditto: jaw, × 12·4.	
10.	Ditto: central tooth and side teeth, enlarged.	
10 *a*.	Ditto: outermost laterals, × 368.	
10 *b*.	Ditto: five laterals, very much enlarged.	
11.	Ditto: generative organs, portion of, × 12·4.	



H.H. Godwin-Austen, del et lith. DURGELLA. Maclure & C° Imp.

PLATE LXXVIII.

[Part VIII.—*January* 1898.]

DURGELLA DEKHANENSIS, Godwin-Austen. South India.

Fig. 1. Shell, × 2·5.

2. Animal and shell (spirit-specimen), showing shell-lobes, × 1·5.

2 *a*. Ditto, part of, from the left side, × 1·5.

2 *b*. Extremity of foot, showing mucous pore, × 8.

2 *c*. Portion of sole of foot, × 8.

2 *d*. Mantle-lobes detached : *r.s.l.*, right shell-lobe &c.

DURGELLA DEKHANENSIS, var. BICOLOR.

Fig. 3. Animal and shell, × 1·4.

4. Jaw, × 24.

5. Generative organs, × 4.

DURGELLA LEVIDENSIS, Godwin-Austen. Travancore.

Fig. 6. Animal, viewed from the right side (spirit-specimen), × 4.

7. Generative organs, × 4.

7 *a*. Male organ, opened out on side, × 4.

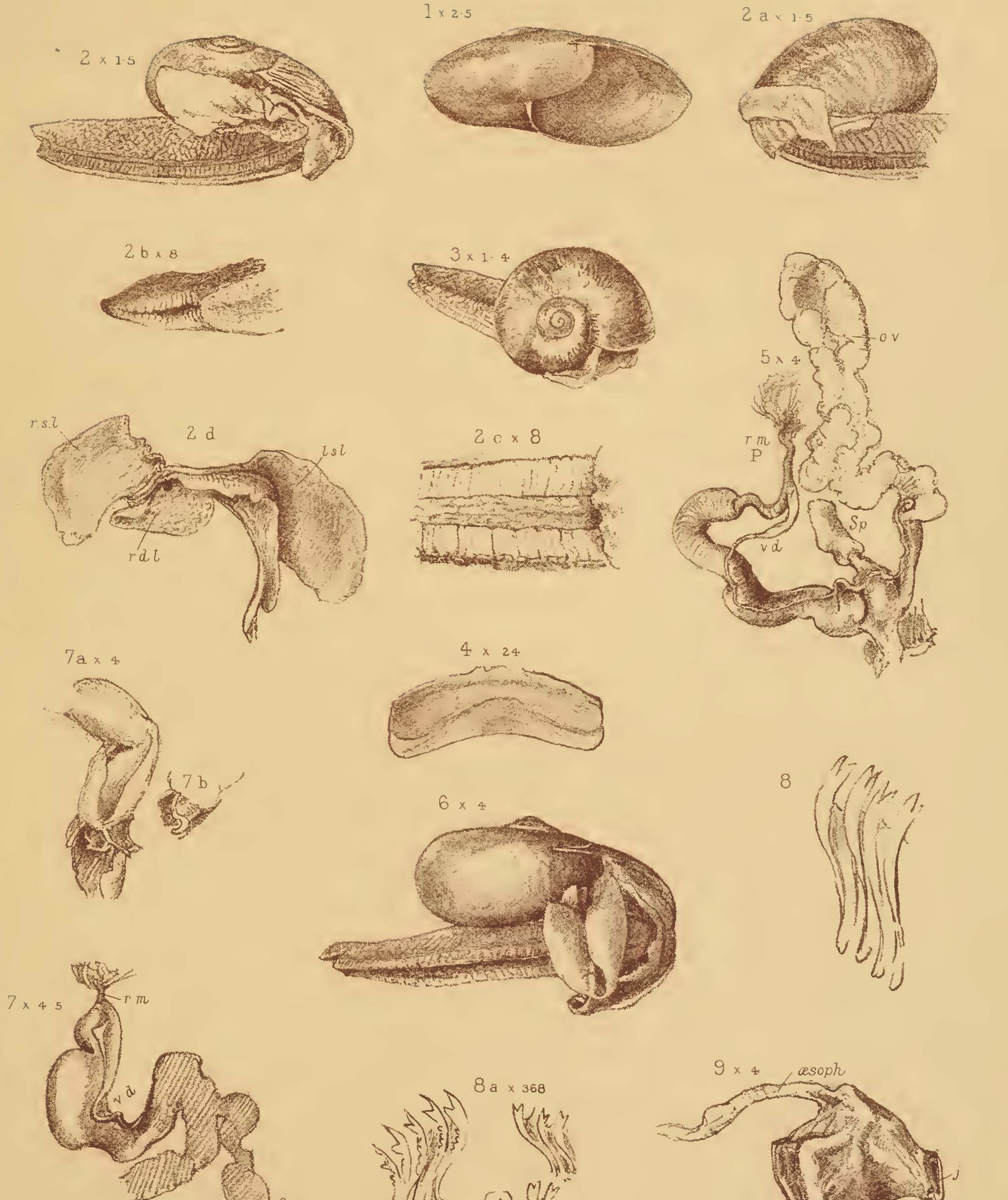
7 *b*. Ditto, end of, enlarged, side view.

8. Four lateral teeth of odontophore, very much enlarged.

8 *a*. The central tooth and outer laterals, × 368.

9. The buccal mass, × 4.

Plate LXXVIII.



H. H. Godwin-Austen, del et lith.

DURGELLA.

Maclure & C° Imp

PLATE LXXIX.

[Part VIII.—*January* 1898.]

Fig. 1.	Durgella christianæ, Theobald: shell, × 4.	Andaman Islands.
2.	Ditto: animal viewed from right side (from spirit-specimen).	
3.	Ditto: jaw, × 12·4.	
4.	Ditto: central tooth and adjacent teeth, much magnified.	
4 *a*, 4 *b*.	Ditto: laterals, very much enlarged.	
5.	Ditto: generative organs; ? the probable position of the retractor muscle of the penis.	
6, 6 *a*.	Durgella? sumbaensis, G.-A.: shell, × 4.	Sumba or Sumbawa.
6 *b*.	Ditto: animal after soaking in water, showing the right shell-lobe, × 4.	
7.	Ditto: jaw, × 30.	
8.	Ditto: central tooth and five median teeth.	
8 *a*.	Ditto: lateral teeth, very much enlarged.	
8 *b*.	Ditto: the outer laterals, very much enlarged.	
9.	Durgella hosei, G.-A.: central tooth and adjacent laterals.	Borneo.
10.	Durgella dekhanensis, G.-A.: extremity of foot, showing a supernumerary overhanging lobe to mucous gland, × 4.	South India.

PLATE LXXIX.

H.H. Godwin-Austen del et lith.

DURGELLA

Maclure & C° Imp

PLATE LXXX.

[Part VIII.—*January* 1898.]

NILGIRIA SOLATA, Benson. Nilghiri Hills.

Fig. 1. Shell, × 1·5.

2. Animal viewed from right side, showing edge of mantle and dorsal lobes, × 1·5.

2 *a*. Ditto, from left and front side, showing sole of foot, × 1·5.

3. Extremity of foot, showing mucous gland, × 4.

4. Generative organs, × 4.

4 *a*. Generative (male) organ, × 8.

ARIOPHANTA LÆVIPES, Müller. Bombay.

Fig. 5. Generative organs, amatorial organ detached, × 4.

5 *a*. Ditto, portion of, showing spermatheca.

5 *b*. Ditto, portion of male organ near junction of vas deferens, showing spermatophore *in situ*, × 12.

5 *c*. Ditto, terminal end of the amatorial organ, × 12.

HEMIPLECTA HUMPHREYSIANA, Lea. Singapur.

Fig. 6. Animal, front view, showing shell- and dorsal lobes, × 2·4.

6 *a*. Ditto, viewed from the left side, showing edge of mantle and left dorsal lobe, × 2·4.

6 *b*. The generative organs, nat. size.

H H Godwin-Austen, del et lith

HEMIPLECTA ARIOPHANTA AND NILGIRIA

Maclure & C° Imp

PLATE LXXXI.

[Part VIII.—*January* 1898.]

Fig. 1. Hemiplecta humphreysiana, Lea: central tooth, × 368. Singapur.

1 *a*. Ditto: central teeth, × 275.

1 *b*. Ditto: 27th, 28th, and 29th centrals, × 368.

1 *c*. Ditto: 59th, 60th, and 61st laterals, × 368.

1 *d*. Ditto: 132nd, 133rd, and 134th laterals, × 368, and outermost teeth.

1 *e*. Ditto: jaw, × 8.

2. Hemiplecta densa, Adams & Reeve: central teeth, × 368. Borneo.

2 *a*. Ditto: 16th, 17th, and 18th median teeth, × 368.

2 *b*. Ditto: three laterals, × 368.

2 *c*. Ditto: jaw, × 8.

3. Nilgiria tranquebarica, Fabr.: mantle-edge and dorsal lobes removed, × 2. Madras.

3 *a*. Ditto: genitalia, × 4.

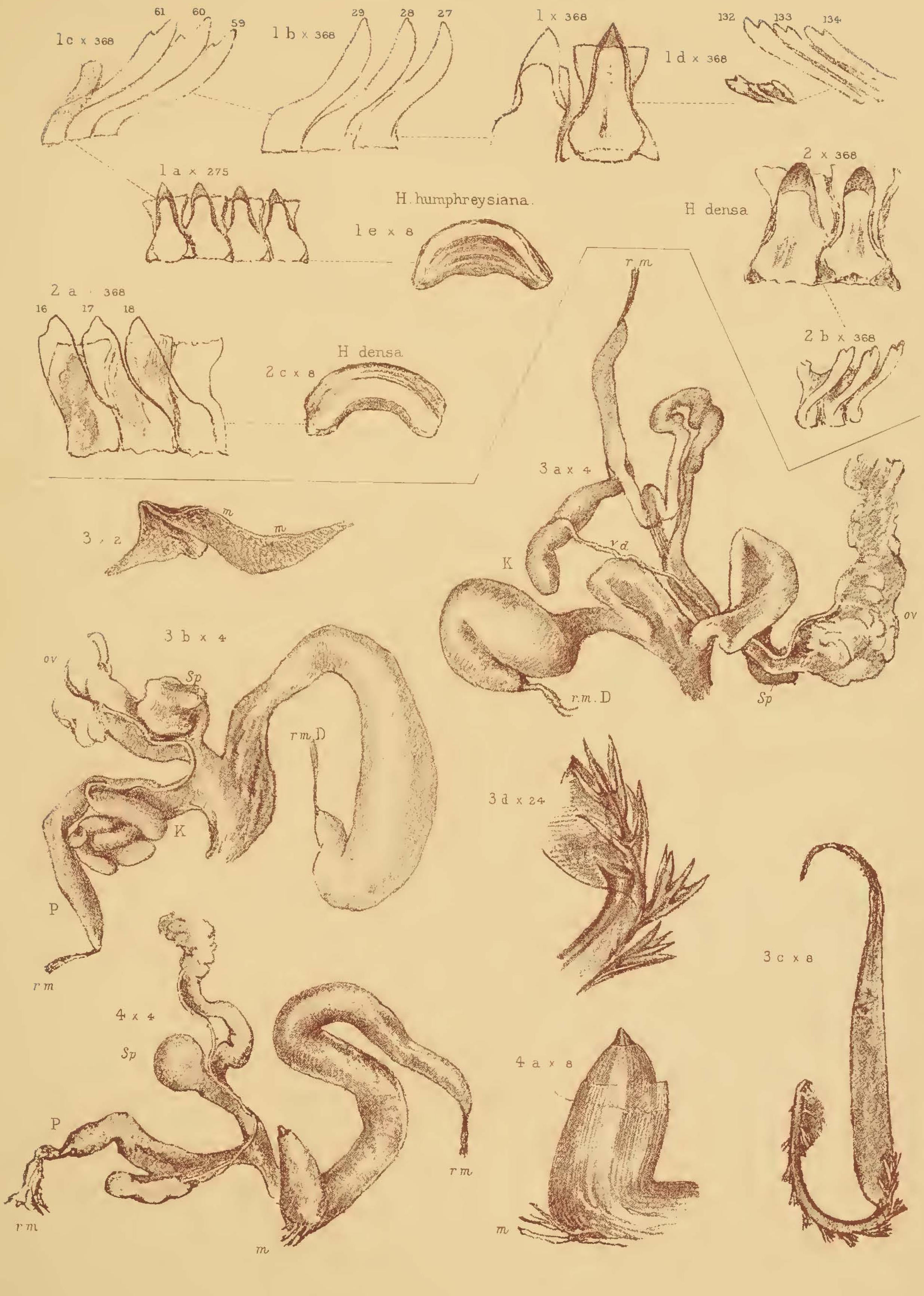
3 *b*. Ditto: another specimen, × 4.

3 *c*. Ditto: spermatophore, × 8.

3 *d*. Ditto: ditto, portion near base of the sac, × 24.

4. Nilgiria bistrialis, Beck: genitalia, × 4. Madras.

4 *a*. Ditto: the basal portion of amatorial organ, showing the "rod-point" or "*virgula amatoria*."



H. H. Godwin-Austen, del et lith

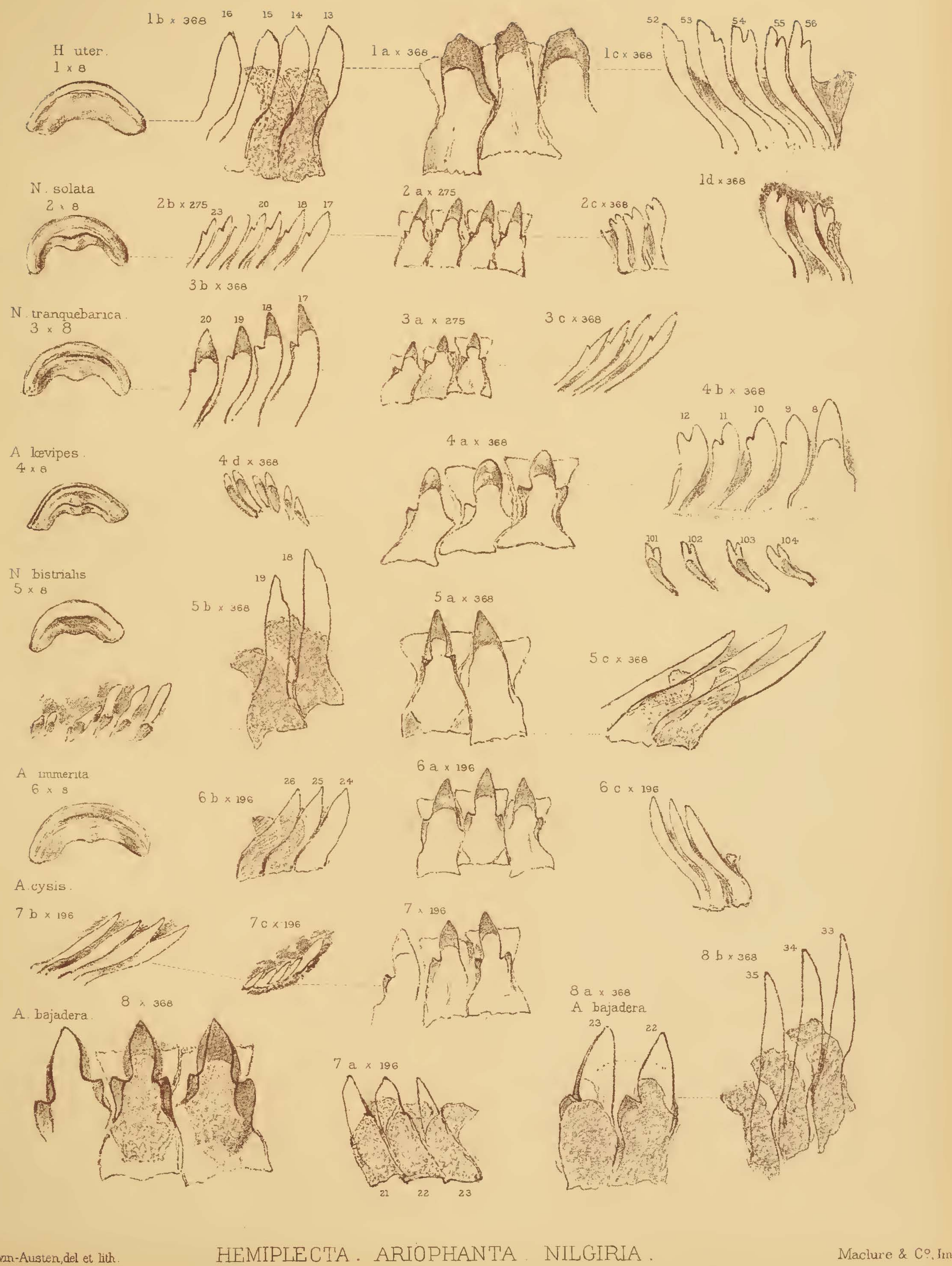
HEMIPLECTA AND NILGIRIA.

Maclure & C°. Imp.

PLATE LXXXII.

[Part VIII.—*January* 1898.]

Fig. 1.	Hemiplecta uter, Theobald : jaw, × 8.	Tenasserim.
1 *a*.	Ditto : central teeth, × 368.	
1 *b*.	Ditto : median teeth, 13th to 16th, × 368.	
1 *c*.	Ditto : laterals, 52nd to 56th, × 368.	
1 *d*.	Ditto : outer laterals, × 368.	
2.	Nilgiria solata, Benson : jaw, × 8.	Nilghiri Hills.
2 *a*.	Ditto : central teeth, × 275.	
2 *b*.	Ditto : median and transition teeth, 17th to 23rd, × 275.	
2 *c*.	Ditto : three laterals, × 368.	
3.	Nilgiria tranquebarica, Fabricius : jaw, × 8.	Madras.
3 *a*.	Ditto : central teeth, × 275.	
3 *b*.	Ditto : median teeth, 17th to 20th, × 368.	
3 *c*.	Ditto : laterals, × 368.	
4.	Ariophanta lævipes, Müller : jaw, × 8.	Bombay.
4 *a*.	Ditto : central teeth, × 368.	
4 *b*.	Ditto : median teeth, 8th to 12th, × 368.	
4 *c*.	Ditto : laterals, 101st to 104th, × 368.	
4 *d*.	Ditto : six outermost teeth, × 368.	
5.	Nilgiria bistrialis, Beck : jaw, × 8.	Madras.
5 *a*.	Ditto : two centre teeth, × 368.	
5 *b*.	Ditto : median teeth, 18th and 19th transition teeth, × 368.	
5 *c*.	Ditto : middle laterals, × 368.	
5 *d*.	Ditto : outermost teeth, × 368.	
6.	Ariophanta immerita, W. T. Blf. : jaw, × 8.	South India.
6 *a*.	Ditto : three central teeth, × 196.	
6 *b*.	Ditto : median transition teeth, 24th to 26th, × 196.	
6 *c*.	Ditto : laterals, 38th, 39th, and 40th, × 196.	
7.	Ariophanta cysis, Benson : central teeth, × 196.	Nilghiri Hills.
7 *a*.	Ditto : median transition teeth, 21st, 22nd, and 23rd.	
7 *b*.	Ditto : three laterals, × 196.	
7 *c*.	Ditto : five outermost teeth, × 196.	
8.	Ariophanta? bajadera, Pfr. : three central teeth, × 368.	Bombay.
8 *a*.	Ditto : median transition teeth, 22nd and 23rd, × 368.	
8 *b*.	Ditto : lateral teeth, 33rd, 34th, and 35th, × 368.	



H. H. Godwin-Austen, del et lith.

HEMIPLECTA. ARIOPHANTA. NILGIRIA.

Maclure & C°. Imp.

PLATE LXXXIII.

[Part IX.—*November* 1899.]

MACROCHLAMYS PEDINA, Benson. Bombay.

Fig. 1. Shell- and mantle-lobes detached, × 4.

2. Generative organs detached, × 4. *crp, cæcum musculi retractoris penis* of Semper.

2 *a*. Ditto, hermaphrodite-duct and albumen-gland, × 4.

3. Male organ coiled as in nature, × 4.

3 *a*. Ditto, part near the retractor muscle attachment opened out, showing cæcum, × 8.

4. Amatorial organ, showing the papilla, × 8.

4 *a*. Ditto, the amatorial rod opened out, × 8.

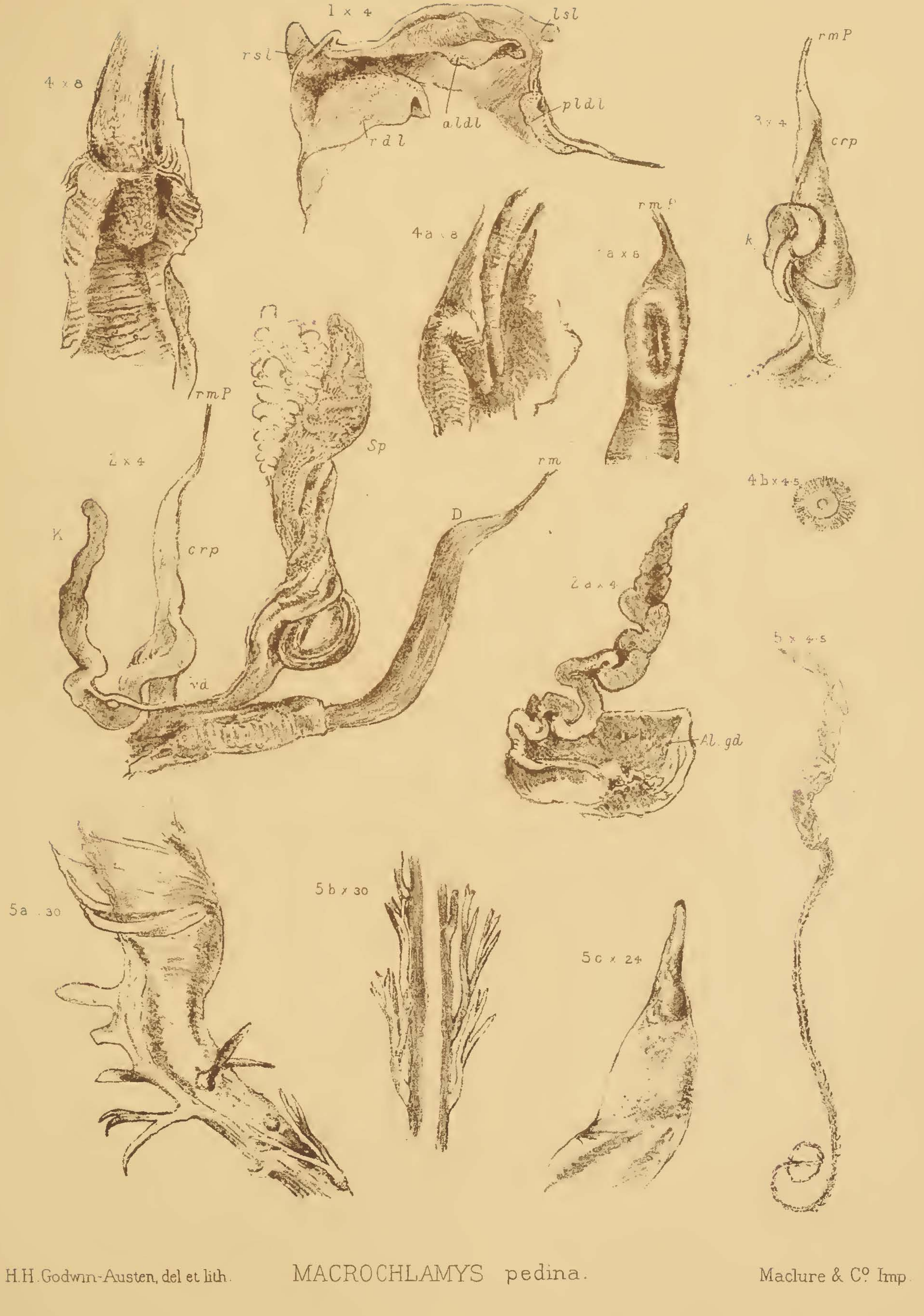
4 *b*. Ditto, section through the amatorial organ near the middle, × 4·5.

5. Spermatophore, entire, from the spermatheca, × 4·5.

5 *a*. Ditto, portion at base of capsule, × 30.

5 *b*. Ditto, portion near middle of flume, × 30.

5 *c*. Ditto, head of the capsule, × 24.



H. H. Godwin-Austen, del et lith. MACROCHLAMYS pedina. Maclure & Co. Imp.

PLATE LXXXIV.

[Part IX.—*November* 1899.]

EURYCHLAMYS PLATYCHLAMYS, W. T. Blf. Bombay.

Fig. 1. Animal, viewed from right side, showing the mantle-lobes, × 4·5.

1 *a*. Left side, ditto, × 4·5.

1 *b*. Shell, × 2·4.

1 *c*. Jaw, × 12.

1 *d*. Generative organs, × 4.

1 *e*. The male organ from another specimen, × 12.

EURYCHLAMYS REGULATA, Benson. Ceylon.

Fig. 2. Animal, viewed from the right side, × 4·5. *r.s.l*, right shell-lobe turned down (inside surface of).

2 *a*. Ditto, right side, × 2. Right shell-lobe in true position.

2 *b*. Shell, × 2·4.

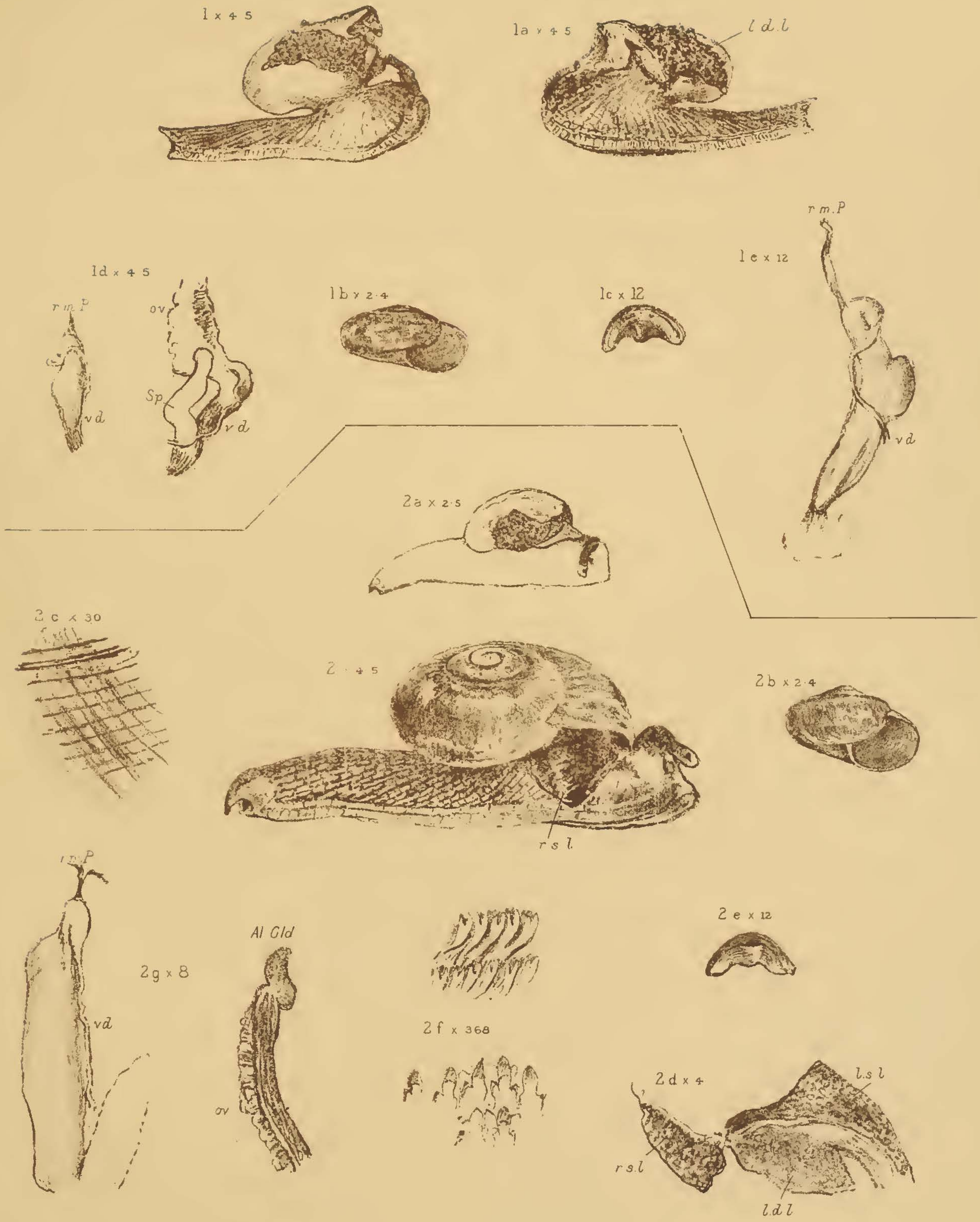
2 *c*. Sculpture of shell near suture, × 30.

2 *d*. The shell- and mantle-lobes detached from the animal, × 4.

2 *e*. Jaw, × 12.

2 *f*. Central and median teeth of radula, × 368.

2 *g*. The male organ and portion of the genitalia, × 8.



H.H. Godwin-Austen, del et lith.

EURYCHLAMYS.

Maclure & Co. Imp

PLATE LXXXV.

[Part IX.—*November* 1899.]

RATNADVIPIA IRRADIANS, Benson. Ceylon.

Fig. 1. Animal, view of right side showing the shell- and mantle-lobes, × 2·5.

2. Shell- and mantle-lobes, left side, 2·4.

3. Sole of foot showing the medial fold and segmentation, × 4·5.

4. The buccal mass, × 4.

5. Shell from above, × 2·5.

5 *a*. Ditto, side view, × 2·5.

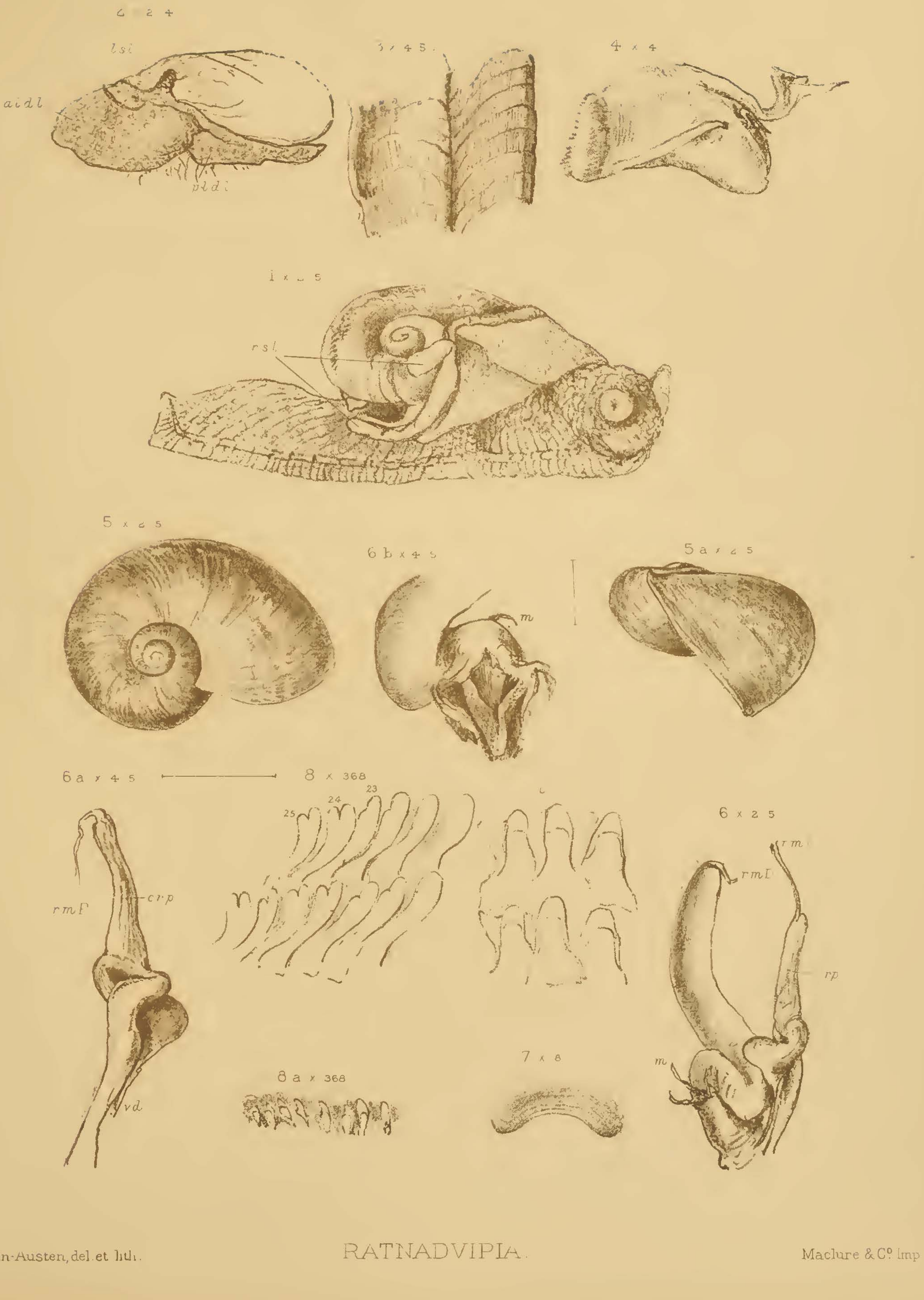
6. Part of the genitalia: male and amatorial organs, × 2·5.

6 *a*. Male organ, another view, × 2·5.

7. Jaw, × 8.

8. Teeth of radula, central and median, × 368.

8 *a*. Ditto, outermost laterals, × 368.



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RATNADVIPIA.

Maclure & C° Imp

PLATE LXXXVI.

[Part IX.—*November* 1899.]

EUPLECTA PRÆEMINENS, Sykes. Ceylon.

Fig. 1. Animal viewed from the right side, shell removed; point of amatorial organ is seen projecting from the generative aperture, × 2·4.

2. Shell- and dorsal lobes, × 4·5.

3. Extremity of foot, viewed from behind, × 8.

4. Genitalia, male and amatorial organ, × 4·5. *crp, cæcum musculi retractoris penis* of Semper.

4 *a*. Male organ, from another side, × 4·5.

4 *b*. Ditto, ditto, × 4·5.

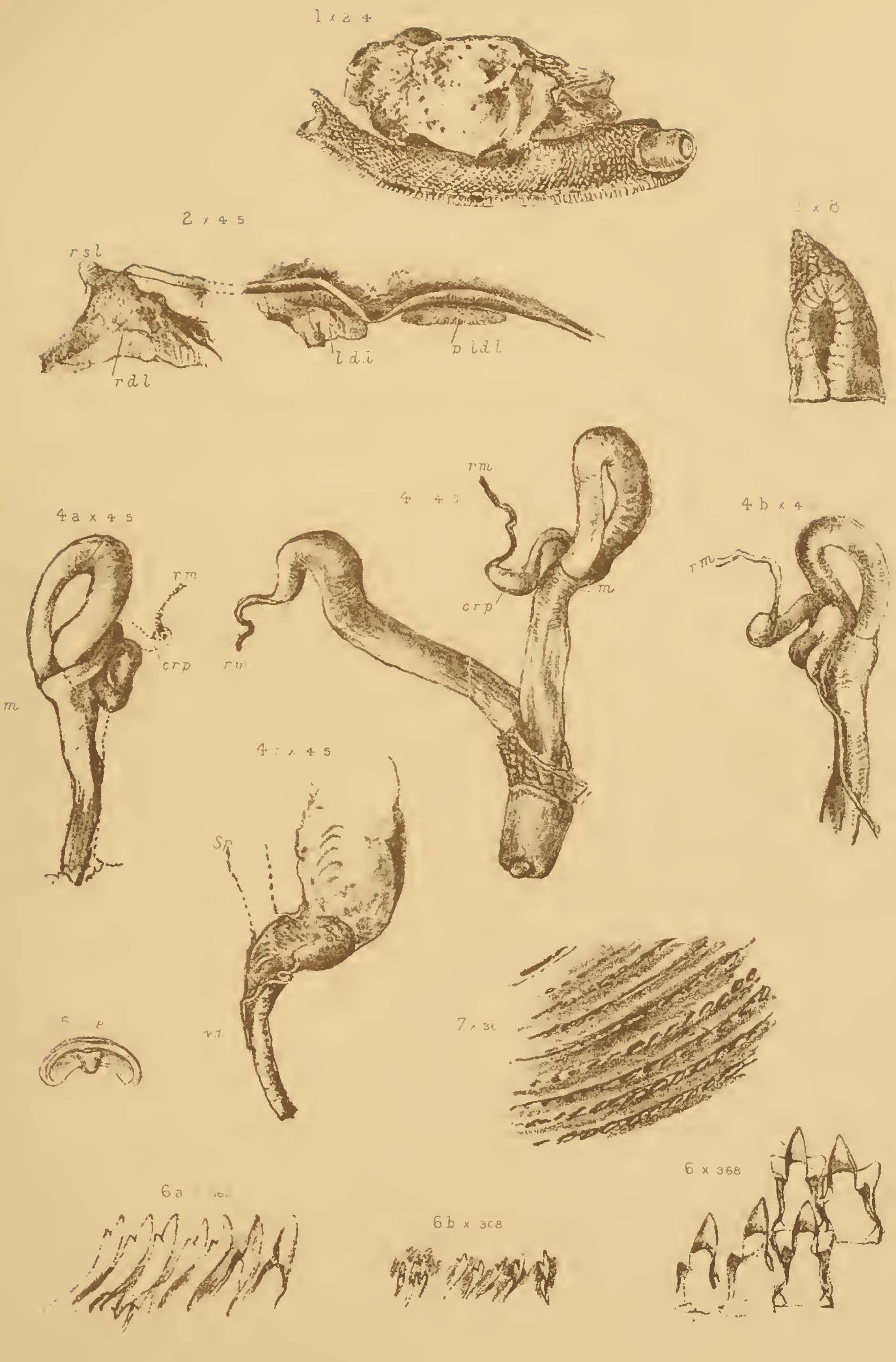
4 *c*. Uterus, oviduct, and vas deferens, × 4·5.

5. Jaw, × 8.

6, 6 *a*, 6 *b*. Teeth of radula, × 368.

7. Portion of shell showing sculpture, × 30.

PLATE LXXXVI



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EUPLECTA

Maclure & Co Imp

PLATE LXXXVII.

[Part IX.—*November* 1899.]

EUPLECTA PARTITA, Pfr. Ceylon.

Fig. 1. Generative organs, × 4·5. *crp, cæcum musculi retractoris penis* of Semper.

1 *a*. Male organ, from another side, × 4·5.

1 *b*. Part of, showing position of spermatophore in process of formation, × 8.

1 *c*. Ditto, ditto, × 8.

1 *d*. The dorsal lobes, × 4.

1 *e*. Buccal mass and salivary glands, × 4·5.

MACROCHLAMYS FLEMINGI, Pfr. Murree, Punjab.

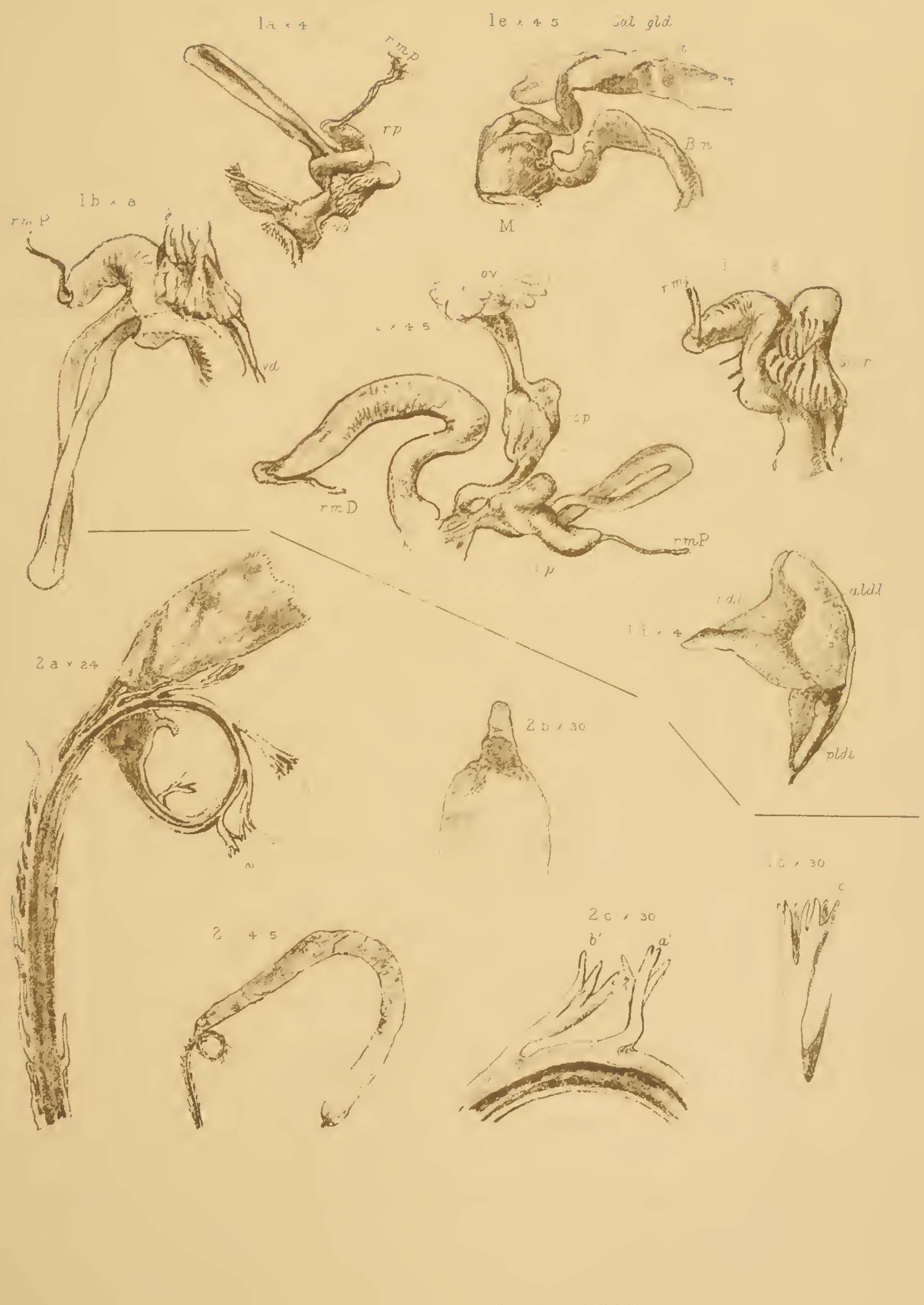
Fig. 2. Spermatophore, 4·5.

2 *a*. Ditto, part of, still further enlarged, × 24. *a*, *b*, *c*, spines of.

2 *b*. Ditto, posterior end of capsule, × 30.

2 *c*. Ditto, spines of (a', b'), × 30.

2 *d*. Ditto, a single spine (c'), × 30.



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EUPLECTA & MACROCHLAMYS.

Maclure & Co Imp.

PLATE LXXXVIII.

[Part IX.—*November* 1899.]

GIRASIA HOOKERI, Gray, var. SHILLONGENSIS, G.-A. Khasi Hills.

Fig. 1. Spermatophore (=fig. 8, pl. xxvii. P. Z. S. 1880), × 4.

1 *a*. Ditto, basal fronds (=fig. 8 *a*, pl. xxvii. P. Z. S. 1880), × 20.

1 *b*. Ditto, ditto (=fig. 8 *b*, pl. xxvii. P. Z. S. 1880), × 50.

1 *c*. Underside of foot, showing the segmentation of the mass (= fig. 5, pl. xxvii. P. Z. S. 1880).

GIRASIA HOOKERI, Gray. Khasi Hills.

Fig. 2. Side view of animal showing the main retractor muscles and site of their several attachments, nat. size.

2 *a*. Side view, showing same, nat. size.

2 *b*. View from beneath of upper wall of the body-cavity, showing the several muscle attachments, nat. size.

2 *c*. Ditto, showing position of heart, pulmonary cavity, &c., nat. size. *m*, edge of mantle.

2 *d*. Sole of foot, lower floor of body-cavity, with muscle attachment of buccal mass, B*p*, nat. size.

2 *e*. The visceral sac, shell removed, viewed from above, × 2·5.

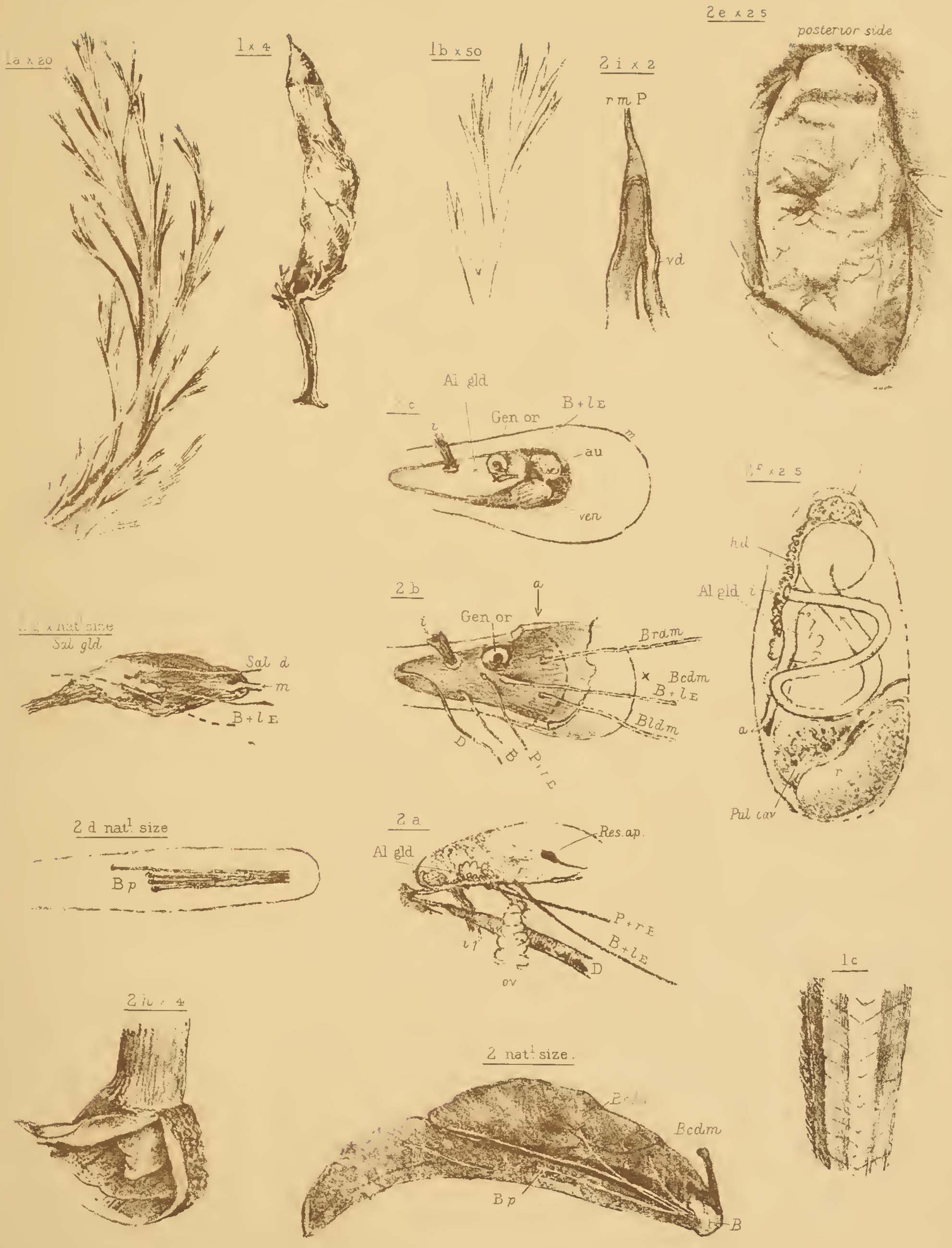
2 *f*. The visceral cavity from above, showing convolutions of the intestine and position of adjacent organs, × 2·5.

2 *g*. The stomach with salivary glands, nat. size.

2 *h*. The anterior end of the dart, × 4.

2 *i*. Posterior bend of male organ with retractor-muscle attachment, × 2.

B, Buccal mass; *Bcdm*, central dorsal muscle of buccal mass; *Brdm*, right dorsal muscle of same; *Bldm*, left ditto; B + *l*E, left eye-tentacle united with that of buccal mass; B*p*, pedal and buccal mass; D, amatorial organ; *hd*, hermaphrodite-duct; *Al.gld*, albumen-gland; *i*, intestine; *a*, anus; *m*, mouth; *Sal.gld*, salivary gland; *Pul.cav*, pulmonary cavity; *r*, renal organ; P + *r*E, right eye-tentacle united with that of the male organ; *l*, liver.



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GIRASIA.

Maclure & Co. Imp

PLATE LXXXIX.

[Part IX.—*November* 1899.]

Austenia gigas, small var. Khasi Hills.

Fig. 1. Generative organs, side view, different parts in relative position (=fig. 1, pl. xxv. P. Z. S. 1880), × 2.

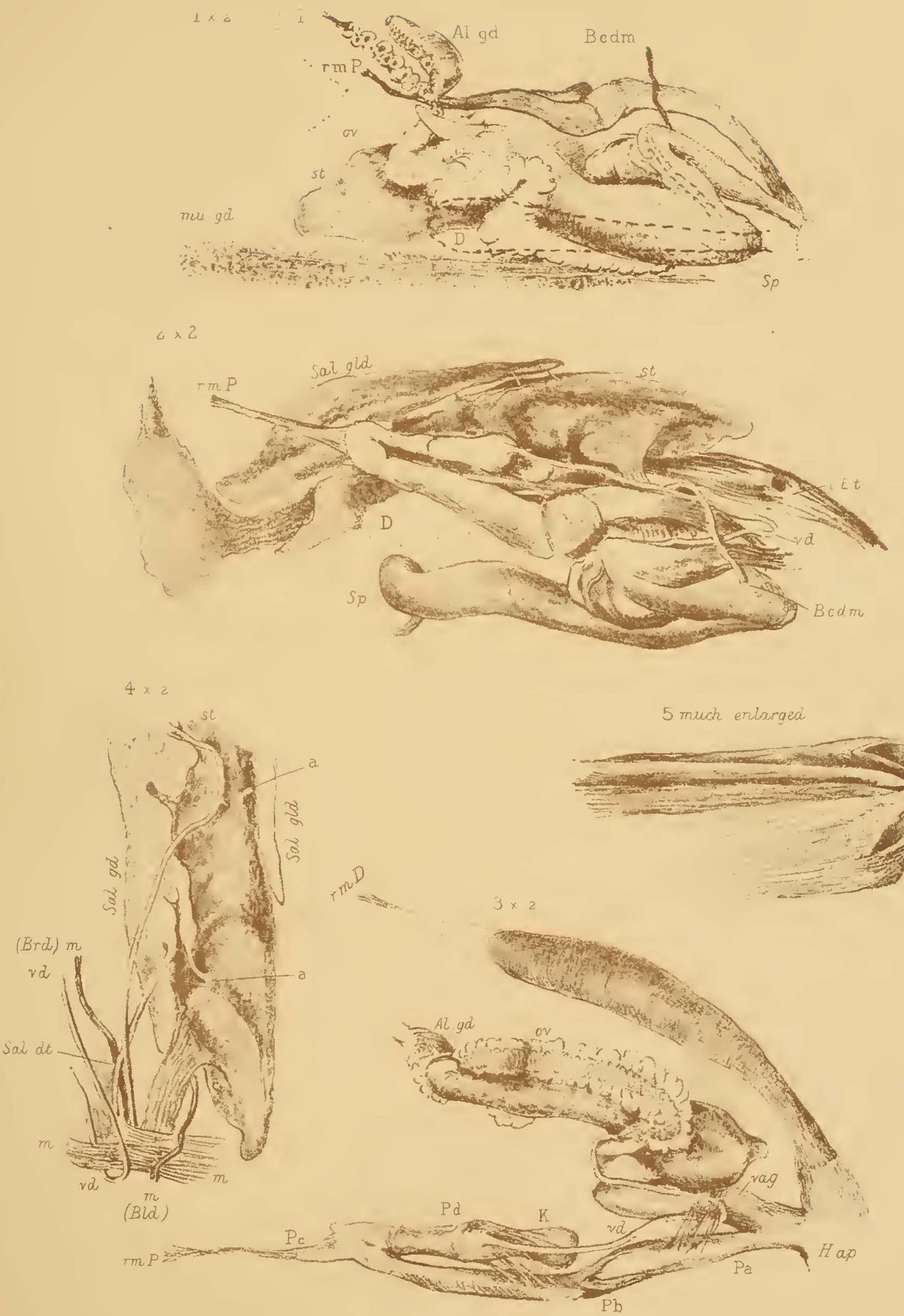
2. Ditto, viewed from above (=fig. 2, pl. xxv. P. Z. S. 1880), × 2.

3. Ditto, removed from the animal (=fig. 3, pl. xxv. P. Z. S. 1880), × 2.

4. Œsophagus, mucous gland, and anterior loop of the vas deferens showing position of (=fig. 4, pl. xxv. P. Z. S. 1880).

5. The amatorial organ cut open, exposing the muscular dart or rod, much enlarged (=fig. 7, pl. xxvi. P. Z. S. 1880).

Al.gd, albumen-gland; *Bcdm*, central dorsal muscle of buccal mass; *(Brd)m*, *m(Bld)*, right and left dorsal muscle of same; D, dart-sac or amatorial organ; *rmD*, retractor muscle of same; *lEt*, left eye-tentacle; *H.ap*, hermaphrodite aperture; *rmP*, retractor muscle of penis or male organ; *Pa*, anterior end of same; *Pc*, posterior end of same; *Pd*, junction of vas deferens; *K*, cæcum calciferum or kalk-sac; *Sp*, spermatheca; *Sal.gld*, salivary gland; *Sal.dt*, salivary duct; *a* and *d*, minor ducts to the stomach; *st*, stomach; *i*, intestine; *vd*, vas deferens; *vag*, vagina; *ov*, oviduct; *mu.gd*, mucous gland; *m*, muscular band.



H H Godwin-Austen, del et lith.

AUSTENIA

Maclure & C° Imp

PLATE XC.

[Part IX.—*November* 1899.]

For a description of the anatomy, see Vol. I. pp. 229–232.

Austenia gigas, Benson. Terai Ghat.

Fig. 1. The male organ, showing the position *in situ* of the spermatophore in its passage outwards (=fig. 2, pl. xxvi. P. Z. S. 1880), × 3.

2. Ditto, showing capsule filled with spermatic coil (=fig. 3, pl. xxvi. P. Z. S. 1880), × 4.

3. Ditto, spermatophores in the spermatheca, × 4.

Austenia gigas, small var. Khasi.

Fig. 4. Broken portion of spermatophore, much enlarged (=fig. 6, pl. xxiv. P. Z. S. 1880).

Austenia butleri, G.-A. Naga Hills.

Fig. 5. Shell (=fig. 9, pl. xxiv. P. Z. S. 1880), nat. size.

6. Shell-lobes and mantle-lobes (=fig. 1, pl. xxvi. P. Z. S. 1880).

7, 7 *a*. Teeth of radula (=fig. 10, pl. xxvii. P. Z. S. 1880), × 340.

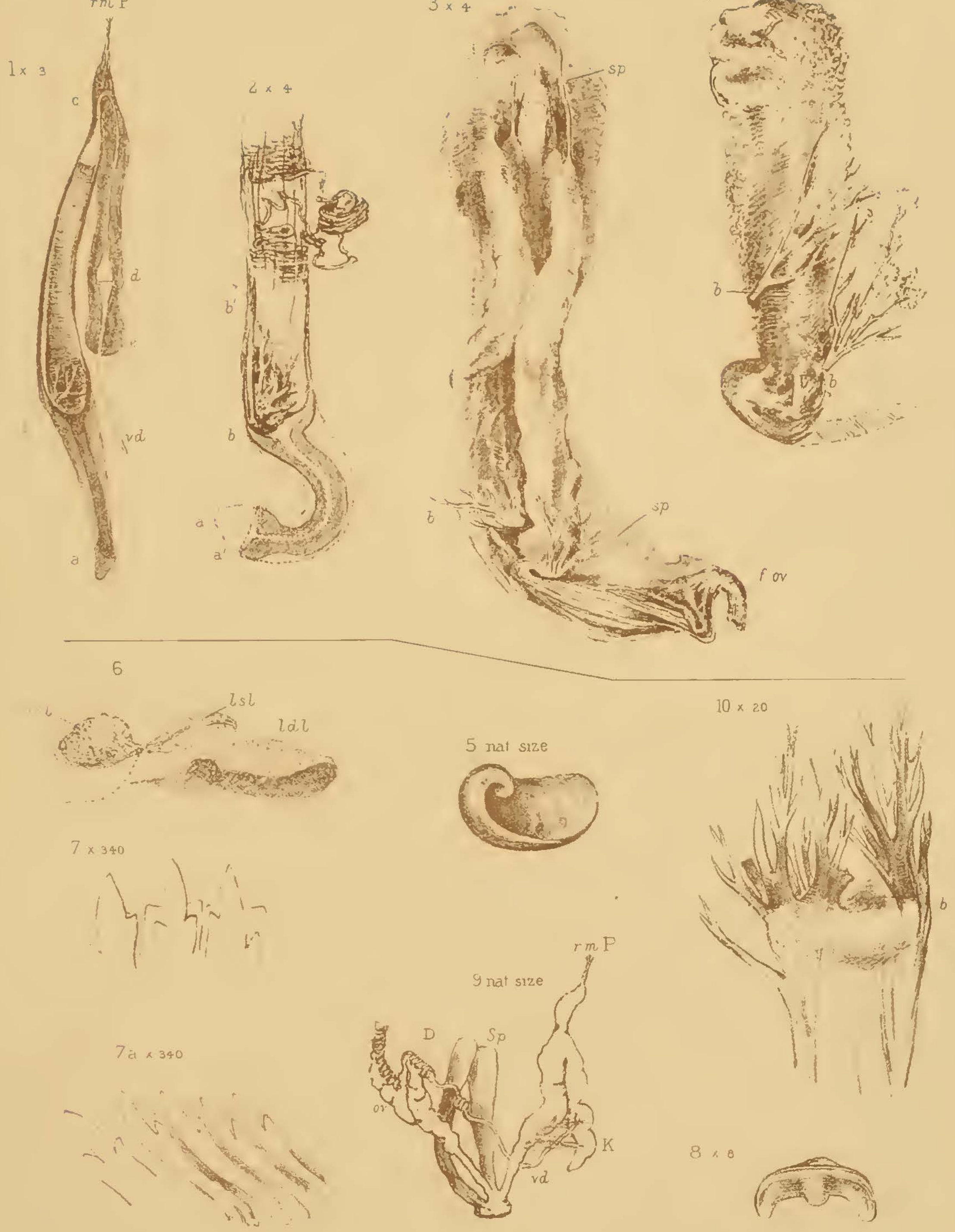
8. Jaw (=fig. 9, pl. xxvii. P. Z. S. 1880), × 8.

9. Generative organs (=fig. 8, pl. xxvi. P. Z. S. 1880), nat. size.

10. Cervicorn spines of the spermatophore (=fig. 5, pl. xxvi. P. Z. S. 1880), × 20.

*rm*P, retractor muscle of the male organ; *vd*, vas deferens; *sp*, spermatheca (portion of the sac); *a*, *a'*, anterior end of male organ; *b*, base of capsule of spermatophore; *c*, junction of retractor muscle; *d*, junction of vas deferens; *e*, end of kalk-sac; *f.ov*, part of free oviduct; *rsl*, *lsl*, *ldl*, right and left shell- and dorsal lobes respectively.

Plate XC



H.H. Godwin Austen del et lith — AUSTENIA — Maclure & C° Imp

PLATE XCI.

[Part IX.—*November* 1899.]

AUSTENIA GURHWALENSIS, n. sp. Gurhwal.

Fig. 1. Shell, front view, × 2·4.
1 *a*. Ditto, from above, × 2·4.
1 *b*. Sculpture of, on body-whorl, × 58.
1 *c*. Jaw, × 8.
1 *d*. Central teeth of radula, × 368.
1 *e*. 22nd, 23rd, and 24th median teeth, × 368.
1 *f*. 26th, 27th, and 28th lateral teeth, × 368.
1 *g*. Outermost laterals, × 368.
1 *h*. The amatorial organ, × 4.

AUSTENIA PAURHIENSIS, n. sp. Gurhwal.

Fig. 2. Shell, front view, × 2·4.
2 *a*. Ditto, from above, × 2·4.
2 *b*. Animal with shell removed, right side, showing mantle-lobes, × 4.
2 *c*. Ditto, left side, showing mantle-lobes, × 4.

AUSTENIA SHANENSIS, n. sp. Shan States.

Fig. 3. Shell, from above, × 2·4.
3 *a*. Ditto, from below, × 2·4.
3 *b*. Animal from right side, portion only well preserved, × 2.
3 *c*. Spermatophores, × 8.
3 *d*. Lateral teeth of radula, × 368.
3 *e*. Outside laterals, × 368.

AUSTENIA PLANOSPIRA, Bs. Sikkim.

Fig. 4. Anterior end of the amatorial organ, × 12.

H.H. Godwin-Austen, del et lith

AUSTENIA

Maclure & Co Imp.

PLATE XCII.

[Part IX.—*November* 1899.]

MICROCYSTINA LITA, Sykes. Ceylon.

Fig. 1. Shell, from type, × 8.

1 *a*. Surface of shell, × 58. *s*, suture.

1 *b*. The spiral of the whorls, × 4·5.

1 *c*. The columellar margin and umbilical region, × 24.

MICROCYSTINA LITA, juv. Ceylon.

Fig. 2. Shell, × 8.

2 *a*. Surface of shell, × 58.

2 *b*. The spiral of the whorls, × 4·5.

2 *c*. The umbilical region, showing columella, × 24.

MICROCYSTINA PERFUCATA, Bs., var. BINTENNENSIS. Bintenne, Ceylon.

Fig. 3. Shell, × 4·5.

3 *a*. Surface of shell, × 58.

3 *b*. The umbilicus and columellar margin, × 24.

3 *c*. Animal, shell removed, showing foot and dorsal lobes, × 8.

3 *d*. Right shell- and dorsal lobes, × 24.

3 *e*. Left dorsal lobes, × 24.

3 *f*. Side view of foot, × 12.

3 *g*. The male organ, × 24.

3 *h*. Ditto, under pressure in transmitted light, × 58.

3 *i*. Buccal mass of intestine and salivary glands, × 12.

MICROCYSTINA PERFUCATA, Benson.

Fig. 4. Columella, × 24.

H.H.Godwin-Austen, del et lith

MICROCYSTINA.

Maclure & Co Imp.

PLATE XCIII.

[Part IX.—*November* 1899.]

Mariælla [=Girasia (Dekhania) of Vol. I.] dussumieri, Val. (black specimen). Mysore.

Fig. 1. Shell, from above, × 2·5.

1 *a*. Generative organs, × 2·5.

1 *b*. Spermatophore, × 4·5.

1 *c*. Ditto, basal end, × 12·4.

Mariælla [=Girasia (Dekhania) of Vol. I.] dussumieri, Val. (a dark olivaceous-green specimen).

Fig. 2. . Animal, view of right side, × 2·4.

2 *a*. Ditto, from above, × 2·4.

2 *b*. Shell, × 2·5.

2 *c*. Ditto, × 4·5.

Microcystis? ambæ, n. sp. Ceylon.

Fig. 3. Shell, front view, × 12.

3 *a*. Ditto, from above, × 8.

3 *b*. Sculpture, × 58.

3 *c*. Head of animal *, × 24.

3 *d*. Extremity of foot †, × 24.

3 *e*. Teeth of radula, × 368.

3 *f*. Embryonic shells in the uterus; × 12.

3 *g*. Ditto, one enlarged, × 24.

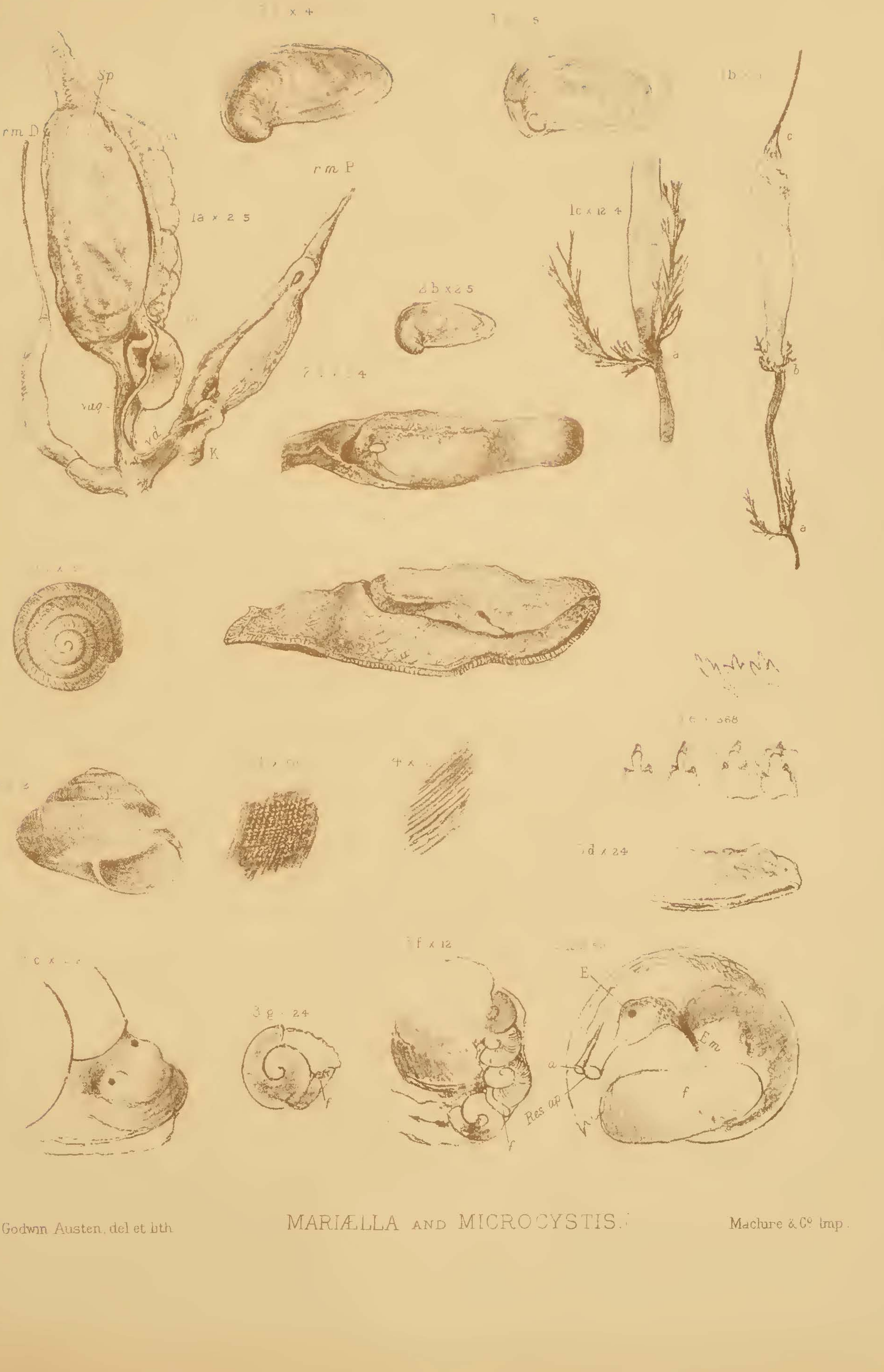
3 *h*. An embryo, showing stage of development, × 58. *a*, ? anal aperture; *Res.ap*, ? the respiratory ditto.

Kaliella delectabilis, Sykes. Ceylon.

Fig. 4. Sculpture, × 58.

* Eye-bearing tentacles decayed.

† State of preservation did not admit of seeing any mucous gland.



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MARIÆLLA AND MICROCYSTIS.

Maclure & Co. Imp.

PLATE XCIV.

[Part IX.—*November* 1899.]

Fig. 1. MACROCHLAMYS UDUS, n. sp.: spermatophore, much enlarged. — Burrail Range, Assam.

2. MACROCHLAMYS LECYTHIS, Bs.: spermatophore, much enlarged. — Cherra Poongee, Khasi Hills.

2 *a*. Ditto: the capsule of the spermatophore, less enlarged.

3. MACROCHLAMYS? TERMINUS, n. sp.: spermatophore, × 52. — Brahmakund, Assam.

3 *a*. Ditto: ditto, × 20.

4. MACROCHLAMYS LECYTHIS, part of a spermatophore, much enlarged. — Naga Hills.

[The shells of Nos. 1, 2, and 3 will be figured in a future Part.]

NILGIRIA TRANQUEBARICA, Fabr. Madras.

Fig. 5. View of the side of the kalk-sac, showing position of the spikelets, × 12·5.

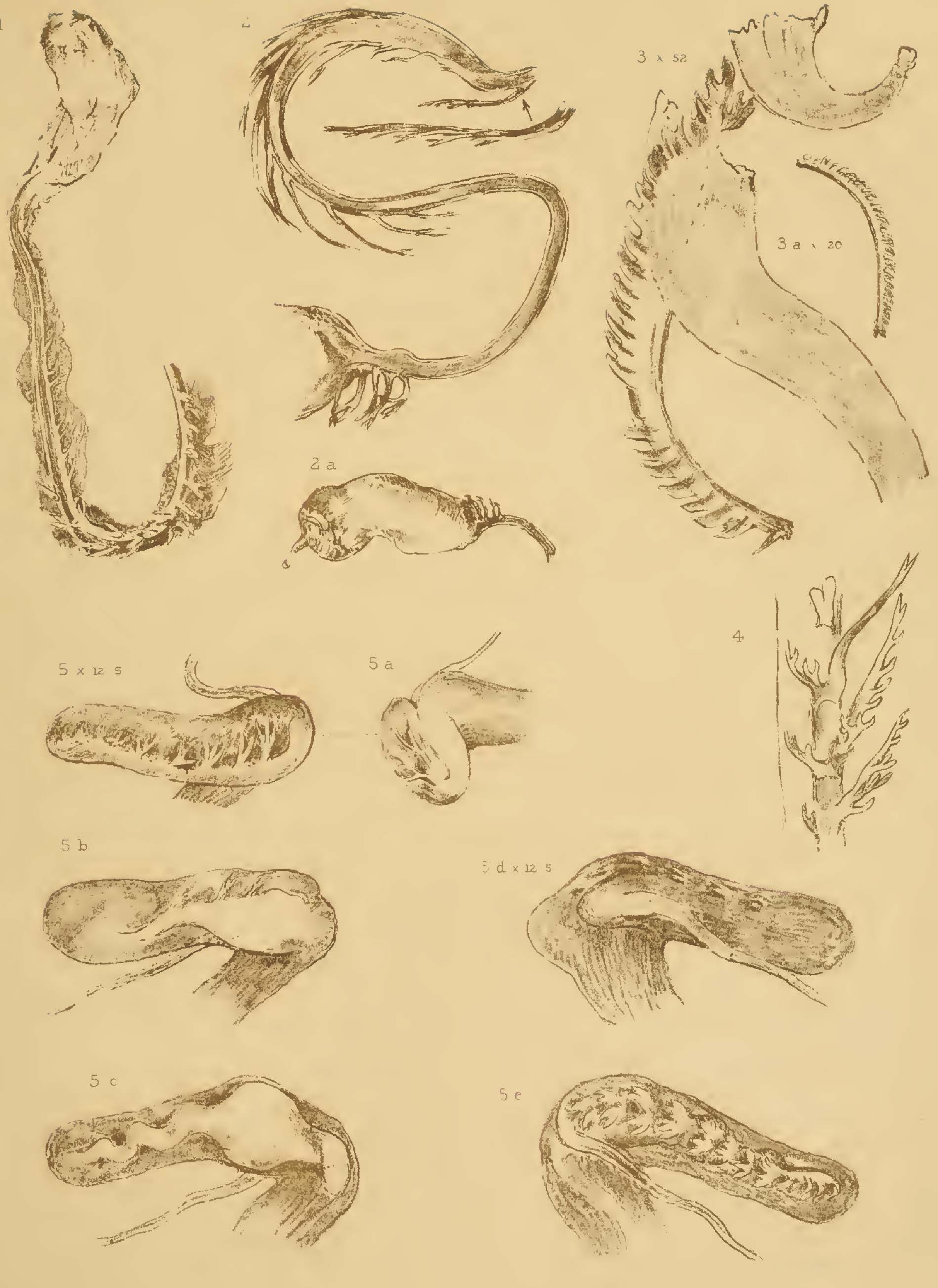
5 *a*. View of inner end.

5 *b*. Showing the capsule.

5 *c*. The same under slight pressure, showing the capsule and flume; spikelets on the other side.

5 *d*. View of the reverse side, to show junction of the vas deferens; the spikelets just indicated on the surface.

5 *e*. The same under slight pressure and in strong light, showing the flume and its spines.



H. H. Godwin-Austen del et lith. MACROCHLAMYS & NILGIRIA. Maclure & C° Imp.

PLATE XCV.

[Part IX.—*November* 1899.]

Bensonia jacquemonti, var. kurramensis, G.-A. Kurram Valley, N.W. Frontier.

Fig. 1. Animal, drawn from life, nat. size.

1 *a*. Ditto, ditto, from left side.

1 *b*. Extremity of foot showing mucous gland, from life, enlarged.

1 *c*. Ditto, side view, enlarged.

1 *d*. Dorsal lobes, as seen removed from the animal, × 4.

1 *e*. Male organ, × 8.

1 *f*. Spermatheca, oviduct, &c., × 8.

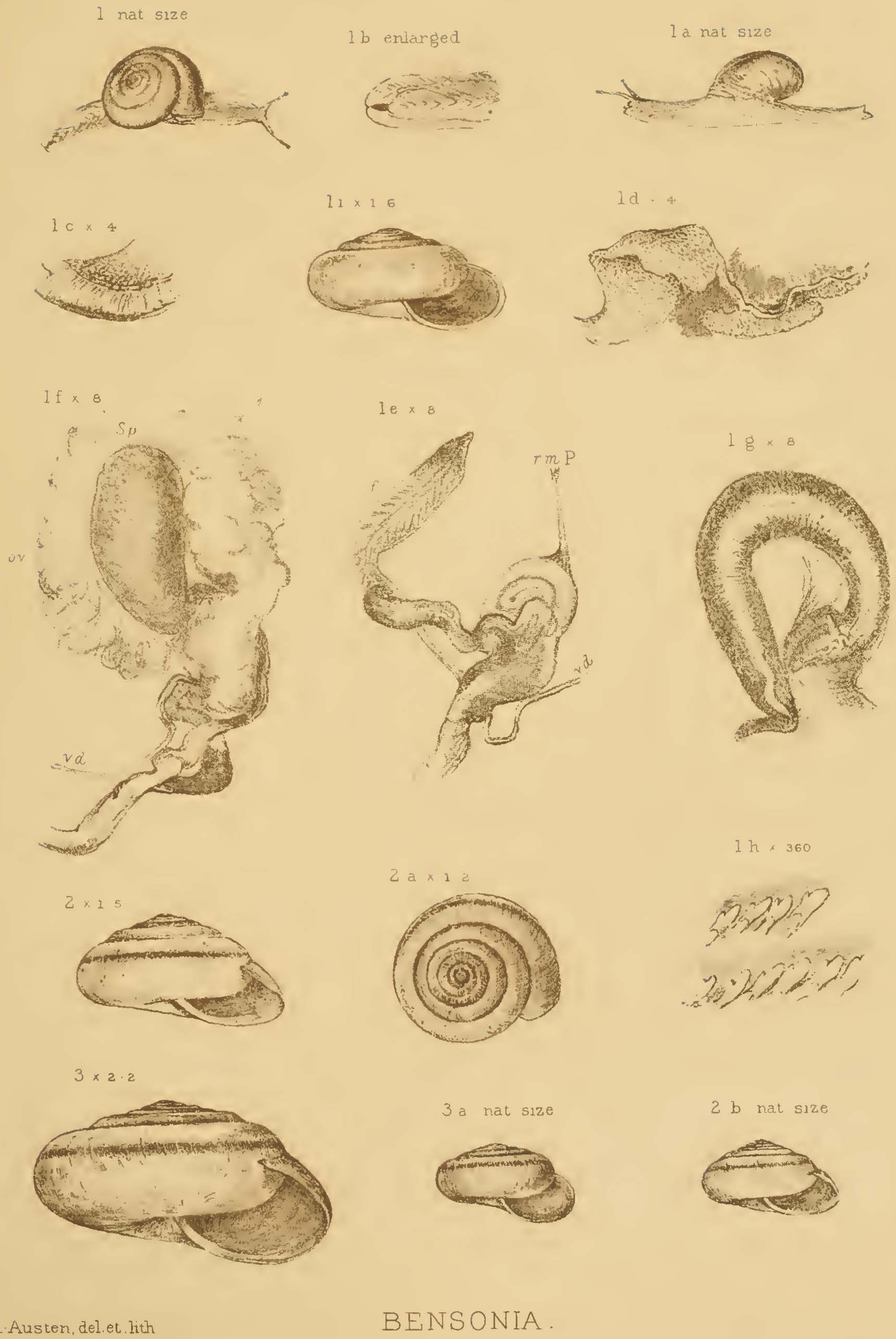
1 *g*. Amatorial organ, × 8.

1 *h*. Outermost teeth of the radula, × 360.

1 *i*. Shell, × 1·6.

Bensonia wynnei, W. T. Blf.

Fig. 2, 2 *a*.	× 1·5 and × 1·2.	Cherat, Kuttak Hills.
2 *b*.	Nat. size.	Ditto.
3.	× 2·2.	Typical locality, Murree.
3 *a*.	Nat. size.	Ditto.



H H Godwin-Austen, del. et. lith

BENSONIA.

Maclure & C° Imp

PLATE XCVI.

[Part IX.—*November* 1899.]

NILGIRIA CHENUI, Pfr. Ceylon.

Fig. 1. Anterior part of animal, from right side, showing mantle-lobes and dermal channels, × 2·3.

2. Ditto, from the right side, × 2·3.

3. Extremity of foot, side view, × 2·3.

4. Ditto, viewed from behind, showing mucous pore, × 2·3.

5. Generative organs, nat. size.

6. Male organs, × 2.

7. Ditto, × 4·5.

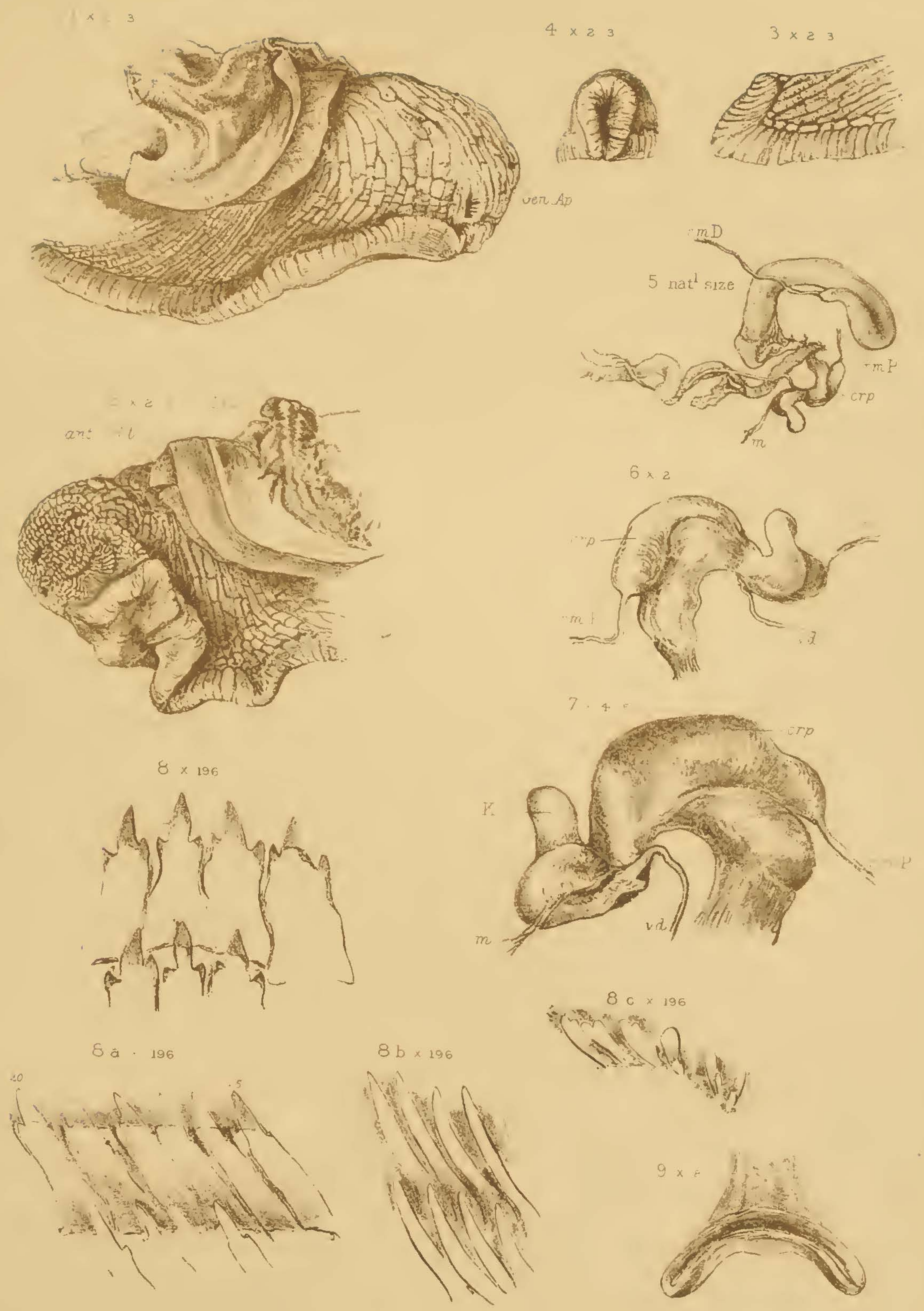
8. Central teeth of the odontophore, × 196.

8 *a*. Median teeth of ditto (20th to 25th), × 196.

8 *b*. Lateral teeth, × 196.

8 *c*. Outermost laterals, × 196.

9. Jaw, × 8.



H H Godwin-Austen, del. et lith

NILGIRIA.

Maclure & Co Imp

PLATE XCVII.

[Part IX.—*November* 1899.]

EUPLECTA BINOYAENSIS, n. sp. Ceylon.

Fig. 1. Shell, × 4·5.

1 *a*. Sculpture of last whorl near suture, × 58.

1 *b*. Portion of generative organs, showing spermatheca in process of formation, × 12·5.

1 *c*. Spermatophore, × 24.

1 *d*. Amatorial organ, × 12·5.

EUPLECTA SEMIDECUSSATA, Pfr. Ceylon.

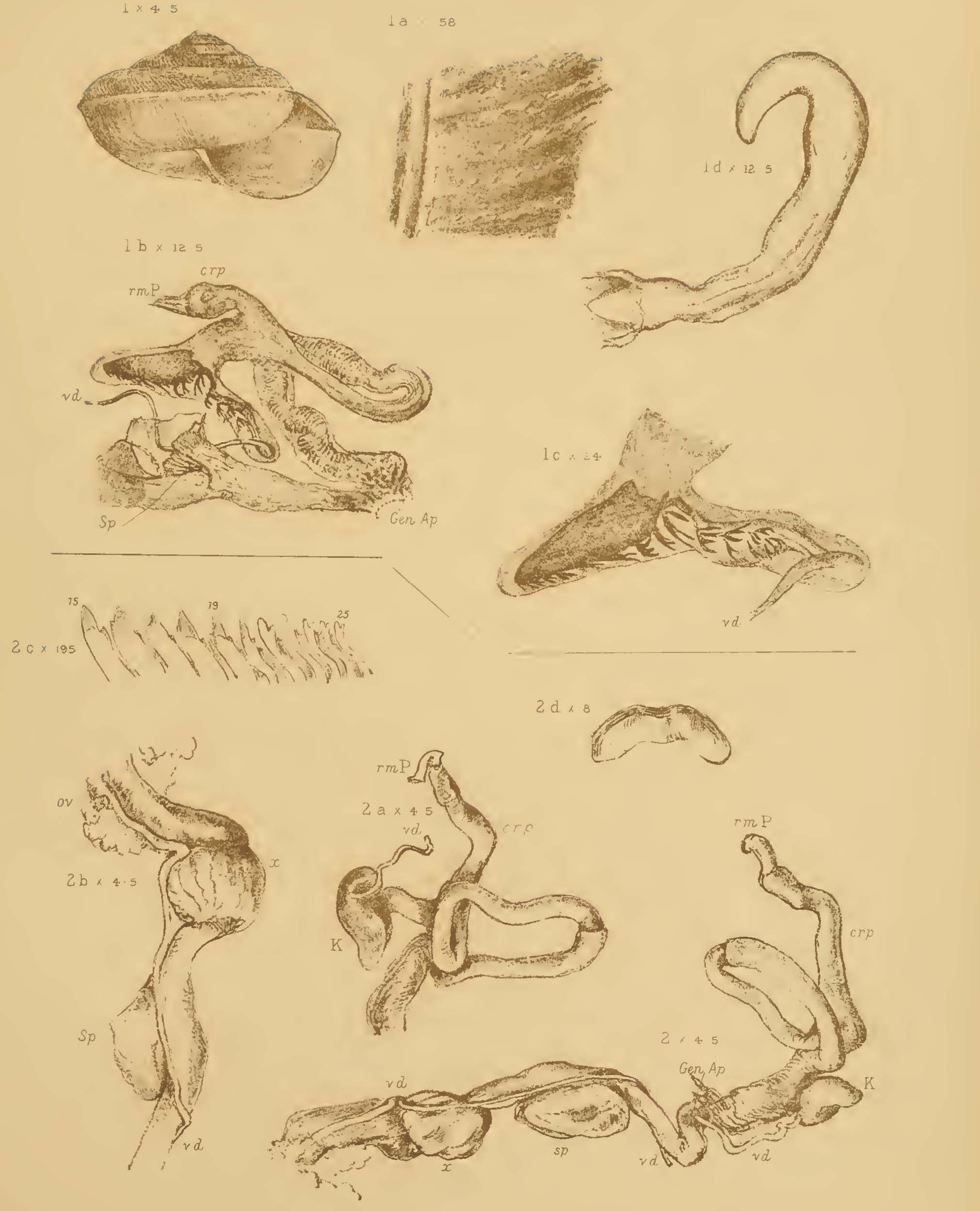
Fig. 2. Portion of generative organs, × 4·5.

2 *a*. The male organ from another side, × 4·5.

2 *b*. Part of the genitalia. *x*, ovitheca.

2 *c*. Odontophore, transition teeth and first laterals, × 195.

2 *d*. Jaw, × 8.



H. H. Godwin Austen del et lith

EUPLECTA.

Maclure & Co Imp

PLATE XCVIII.

[Part IX.—*November* 1899.]

NILGIRIA LIGULATA, Férussac. Madras.

Fig. 1. Animal, view of right side, × 2.

1 *a.* Right side of mantle-zone, with right dorsal lobe, × 4·5. *rec,* rectum.

1 *b.* The mantle-zone, with right and left dorsal lobes, × 4·5.

1 *c.* Genitalia, × 4·5. *ot,* ovitheca.

1 *d.* Sculpture of shell on penultimate whorl, × 4·5.

NILGIRIA TRANQUEBARICA, Fabr. Madras.

Fig. 2. Oblique cut through the ovitheca, showing internal rugæ, × 12·5.

2 *a.* Same above the cut, × 12·5.

2 *b.* Sculpture of shell on last and penultimate whorls, × 4·5.

NILGIRIA CHENUI, Pfr. Ceylon.

Fig. 3. Sculpture of shell 22 mm. behind the aperture, × 4·5.

ARIOPHANTA DALYI, W. T. Blf., subsp. (*A. cysis,* var.) Mysore.

Fig. 4. Genitalia, × 4·5.

EUPLECTA SEMIDECUSSATA, Pfr. Ceylon.

Fig. 5. Sculpture of shell, last whorl, × 8.

…rwin-Austen, del et lith ARIOPHANTA. NILGIRIA. EUPLECTA Maclur… imp

PLATE XCIX.

[Part IX.—*November* 1899.]

HAUGHTONIA CONFERTA, Pfr.

Fig. 1. The animal, viewed from the right side, × 2·2.

2. The mucous pore, seen from behind, × 8.

3. The mantle-edge and dorsal lobes, detached, × 2.

4. The mantle-edge in vicinity of the respiratory aperture, showing the rudimentary right shell-lobe, × 9.

5. Genitalia, × 2·5.

5 *a*. The male organ, from two different sides, × 4·5.

5 *b*. Ditto, with lower muscular sheath cut open, × 8.

6. The centre teeth of the radula, × 365.

6 *a*. The median at the 20th tooth to the 25th lateral, × 365.

6 *b*. The outermost laterals, × 365.

7. The jaw, × 8.

8. Sculpture of the shell, × 24.

H H Godwin-Austen, del. et. lith.

HAUGHTONIA.

Maclure & Co. Imp.

PLATE C.

[Part IX.—*November* 1899.]

Khasiella vidua, W. T. Blf. Munipur Hills.

Fig. 1. Animal, from the right side, mantle-zone removed, × 4·5. *i*, intestine; *b*, integument covering branchial chamber.

1 *a*. Extremity of the foot, × 4·5.

1 *b*. Mantle-zone removed, showing right and dorsal shell-lobes, × 8.

1 *c*. Ditto, showing the left shell- and dorsal lobes, × 8.

2. Shell, × 3.

2 *a*. Portion of shell, to show the costulation, × 8.

3. Genitalia, × 4·5.

3 *a*. The cæcum of the male organ, × 8.

4. Jaw, × 24.

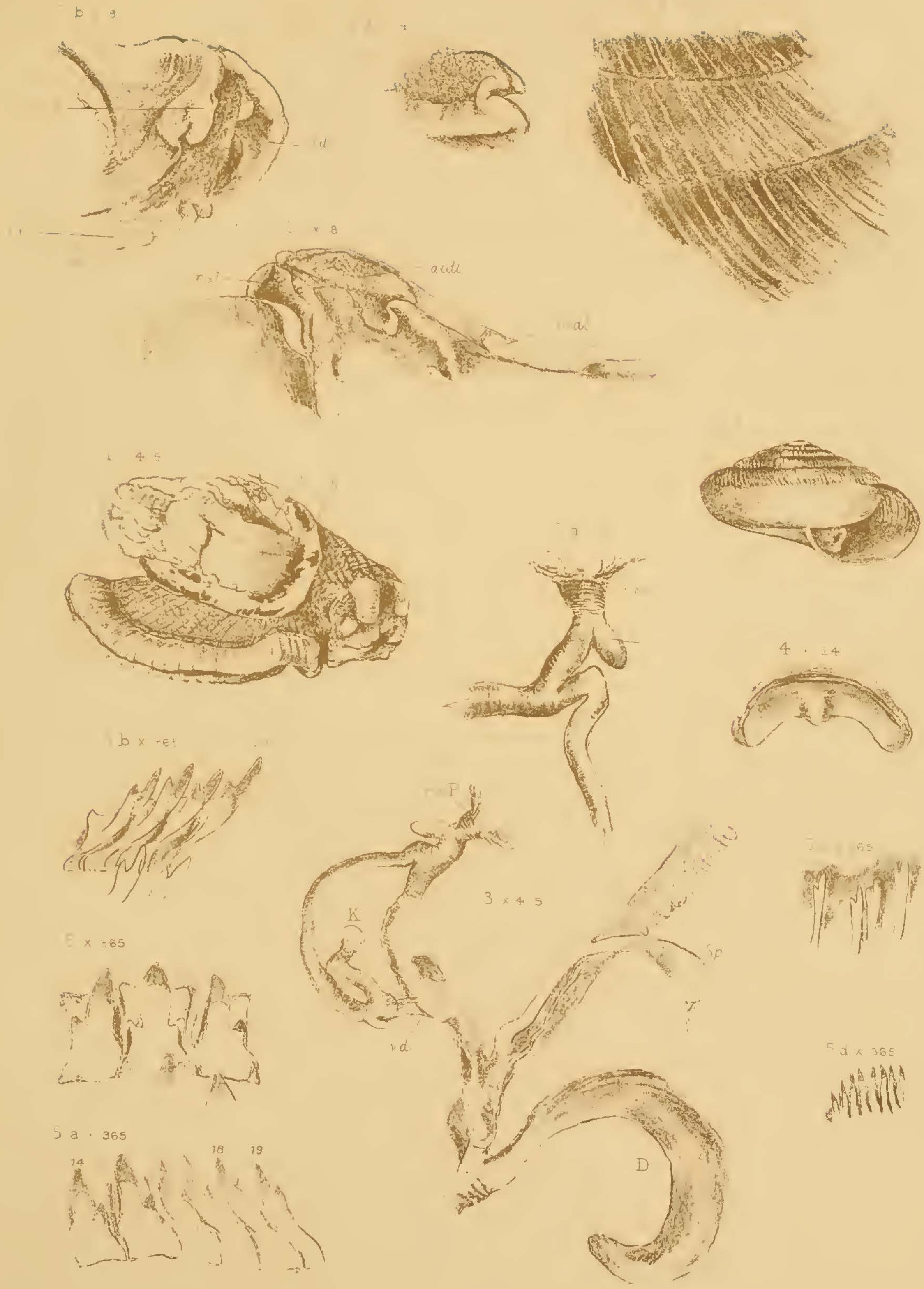
5. Centre tooth and adjacent medians, × 365.

5 *a*. 14th to 19th teeth, × 365.

5 *b*. 20th to 23rd lateral teeth, × 365.

5 *c*. Ditto, × 365.

5 *d*. Outermost or marginal teeth, × 365.



H H Godwin-Austen, del. et lith.

KHASIELLA.

Maclure & Co Imp

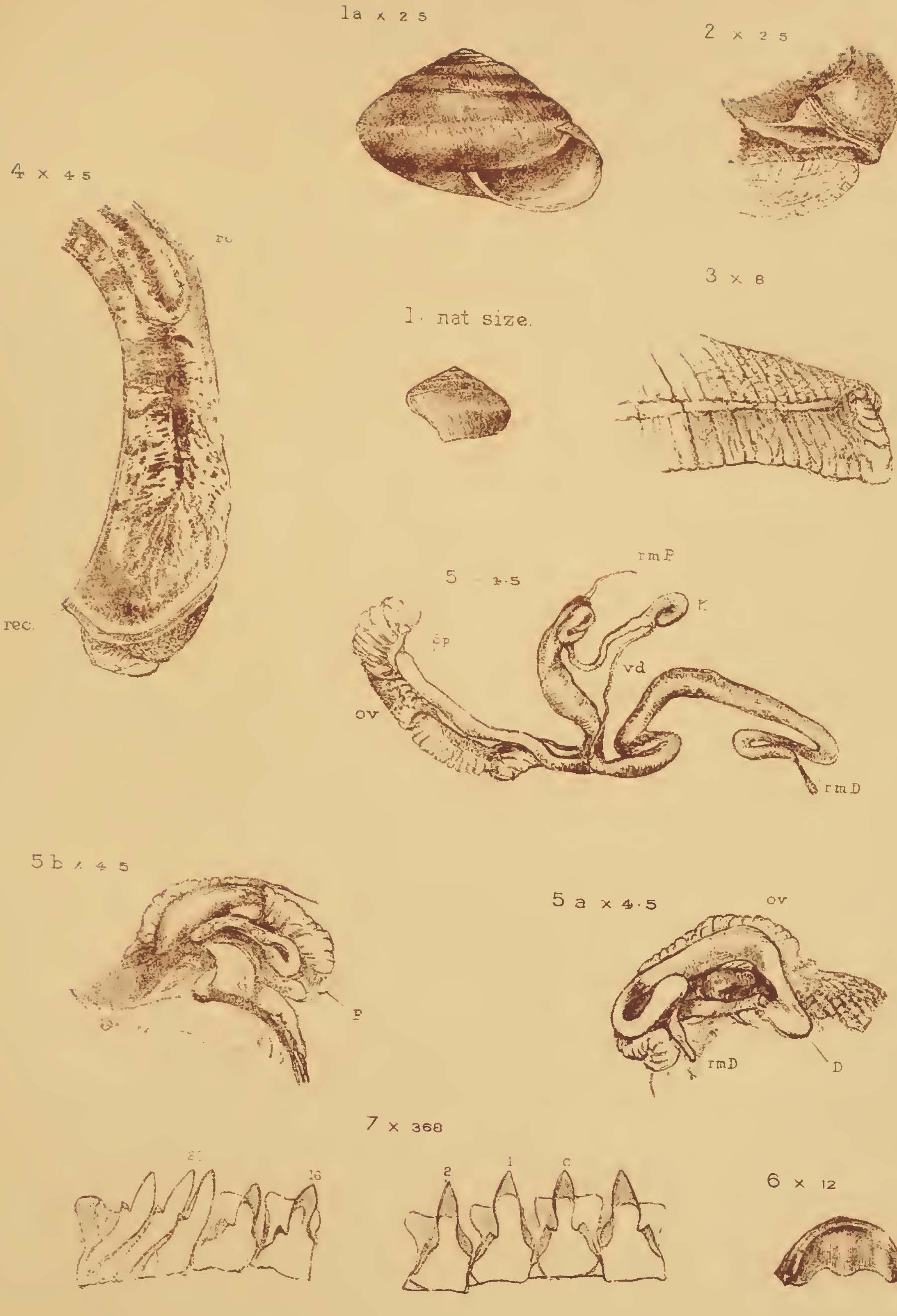
PLATE CI.

[Part X.—*April* 1907.]

BENSONIA CAMURA, Benson. Sikkim.

Fig. 1. Shell, natural size.
- 1 *a*. Ditto, × 2·5.
- 2. Mantle-edge and right dorsal lobe, × 2·5.
- 3. Extremity of foot, × 8.
- 4. Mantle-edge and anterior part of visceral sac, × 4·5.
- 5. Genitalia, removed from the animal, × 4·5.
- 5 *a*. Ditto, seen from right side before removal, × 4·5.
- 5 *b*. Ditto, seen from left side before removal, × 4·5.
- 6. Jaw, × 12.
- 7. Radula, part of, × 368.

cæ, cæcum; *rec*, rectum; *r.o*, renal organ; *ov*, oviduct; *P*, penis; *v.d*, vas deferens; *k*, kalk-sac; *sp*, spermatheca; *D*, amatorial organ or dart-sac; *rmP*, *rmD*, retractor muscles of penis and dart-sac.



dwin-Austen, del et lith

BENSONIA

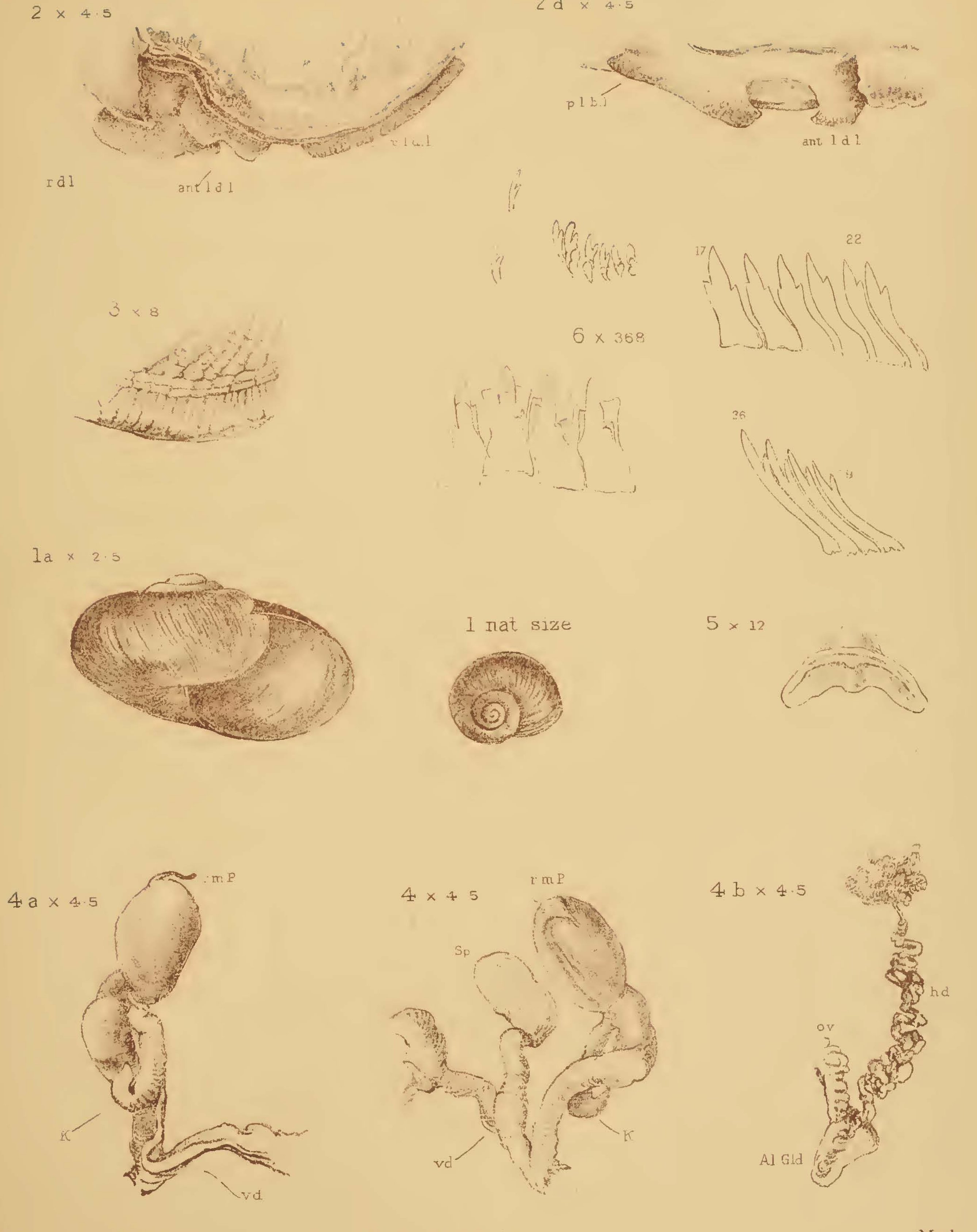
Maclure & C° Imp

PLATE CII.

[Part X.—*April* 1907.]

Dalingia bhutanensis, n. sp. Bhutan Hills.

Fig. 1. Shell, natural size.
1 *a*. Ditto, front view, × 2·5.
2. Mantle-edge, showing dorsal lobes seen from above, × 4·5.
2 *a*. Ditto, showing dorsal lobes viewed from below, × 4·5.
3. Portion of peripodial margin of the foot, × 8.
4. Generative organs, × 4·5.
4 *a*. Ditto, male organ, reverse side, × 4·5.
4 *b*. Ditto, albumen-gland &c., × 4·5.
5. Jaw, × 12.
6. Teeth of the radula at different parts of the row, × 368.

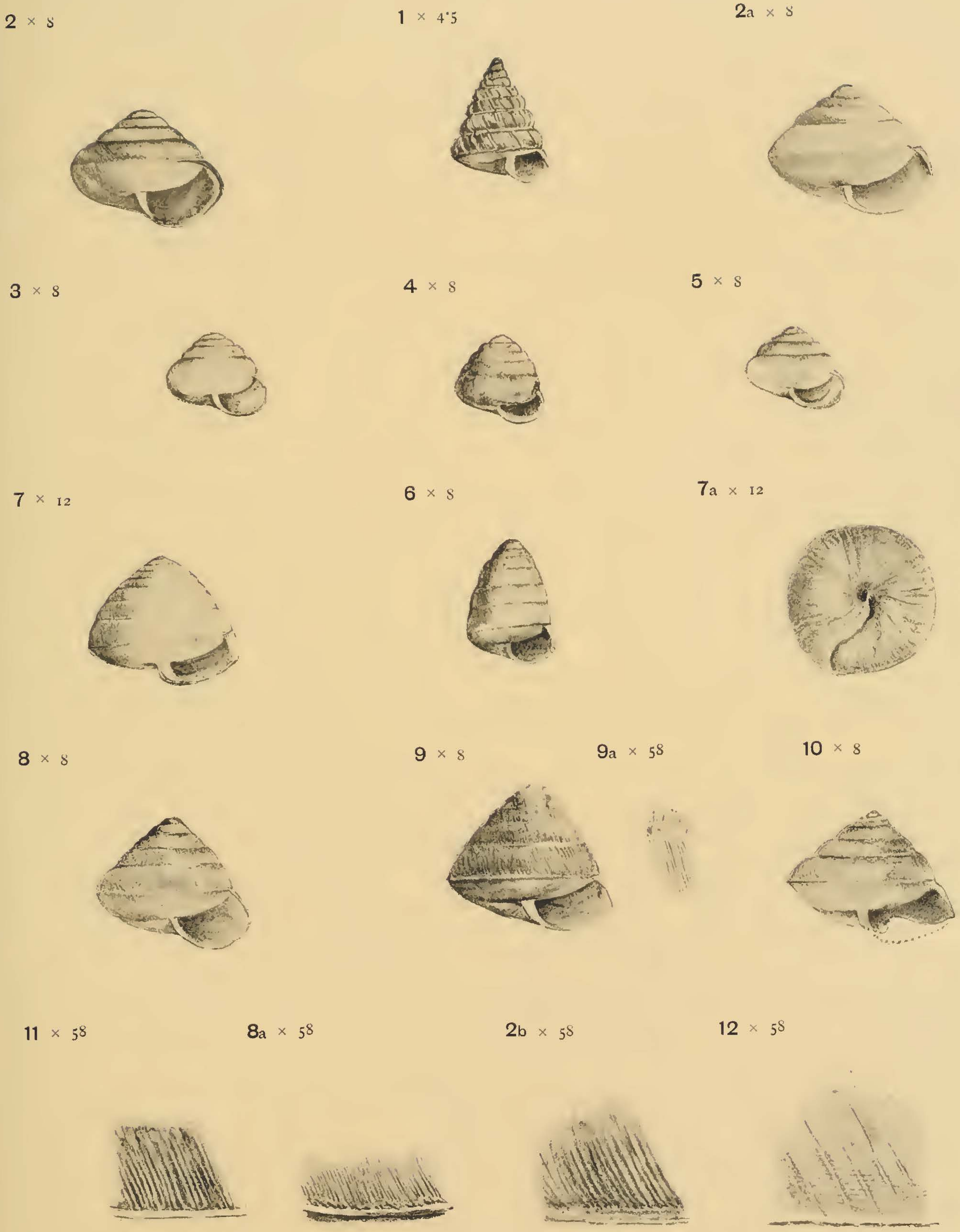


H.H. Godwin-Austen, del et lith. DALINGIA Maclure & C° Imp.

PLATE CIII.

[Part X.—*April* 1907.]

Fig. 1.	Rahula macropleuris, Bs., × 4·5.	Sikkim.
2.	Kaliella richilaensis, n. sp., × 8.	Ditto.
2 *a*.	—— ——, var., × 8.	
2 *b*.	—— ——, sculpture of shell, fig. 2, × 58.	
3.	—— flatura, G.-A., × 8.	Ditto.
4.	—— sikkimensis, G.-A., Nevill MS., × 8.	Ditto.
5.	—— shillongensis, n. sp., × 8.	Khasi Hills.
6.	—— fastigata, n. sp., × 8.	Sikkim.
7, 7 *a*.	—— bhutanensis, n. sp., × 12.	Bhutan.
8.	—— jaintiaca, G.-A., × 8.	Jaintia Hills.
8 *a*.	—— ——, sculpture, × 58.	N. Cachar Hills.
9.	—— rissomensis, n. sp., × 8.	Bhutan.
9 *a*.	—— ——, sculpture, × 58.	
10.	—— paucistriata, n. sp., × 8.	Dafla Hills.
11.	—— nagaensis, G.-A., sculpture, × 58.	Naga Hills.
12.	—— daflaensis, G.-A., sculpture, × 58.	Dafla Hills.



H. H. Godwin-Austen, del.

KALIELLA, &c.

F. W. Reader, Photo. Eng., Watford.

PLATE CIV.

[Part X.—*April* 1907.]

Macrochlamys tugurium, Benson. Sikkim.

Fig. 1, 1 *a*. Shell, natural size.

1 *b*. Ditto, enlarged, × 2·5.

2. Animal, with shell removed, to show right shell-lobe and visceral sac, × 1·5.

3. Extremity of foot, × 8.

4. Part of animal, showing mantle-edge, visceral sac, and character of its markings, × 4·5.

5. Genitalia, × 4·5.

5 *a*. Ditto of another specimen, penis and spermatheca, × 4·5.

5 *b*. Ditto, male organ, reverse side, × 4·5.

6. Jaw, × 12·5.

7. Teeth of radula at various parts of a row, × 368.

H.H Godwin-Austen, del et. lith.

MACROCHLAMYS

Maclure & C[o] Imp.

PLATE CV.

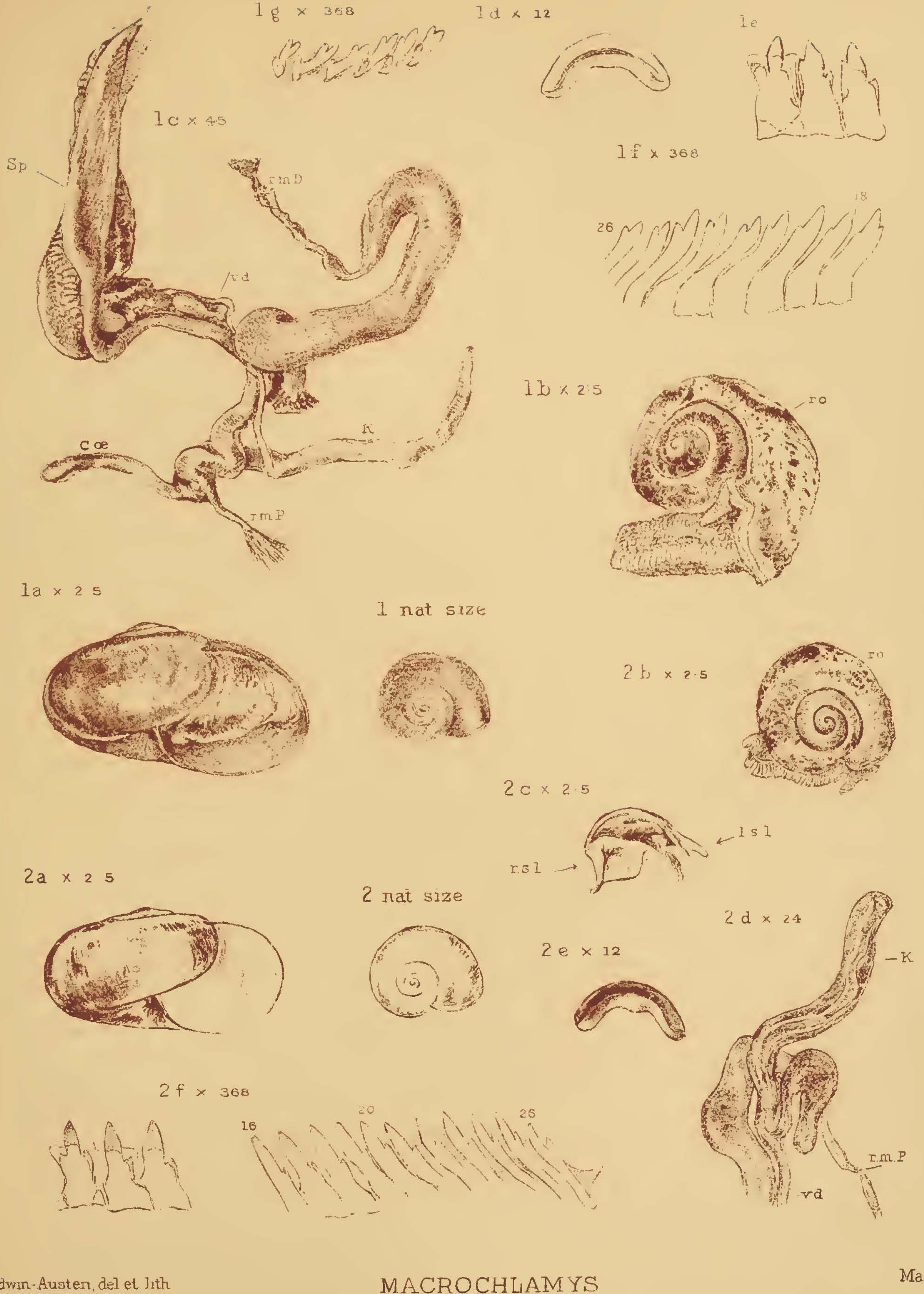
[Part X.—*April* 1907.]

MACROCHLAMYS RICHILAENSIS, n. sp. Bhutan.

Fig. 1, 1 *a*. Shell, nat. size and enlarged, × 2·5.
1 *b*. Animal, with shell removed, showing visceral sac &c., × 2·5.
1 *c*. Generative organs, × 4·5.
1 *d*. Jaw, × 12.
1 *e*. Teeth of radula, central and two side teeth, × 368.
1 *f*. 18th to the 26th teeth, × 368.
1 *g*. Outermost teeth, × 368.

MACROCHLAMYS DAMSANGENSIS, n. sp. Bhutan.

Fig. 2, 2 *a*. Shell, nat. size and enlarged, × 2·5.
2 *b*. Animal, with shell removed, showing visceral sac &c., × 2·5.
2 *c*. Mantle-edge, showing shell-lobes, × 2·5.
2 *d*. Part of penis near retractor muscle, × 24.
2 *e*. Jaw, × 12.
2 *f*. Radula, part of: 16th to the 26th teeth, × 368.



H.H Godwin-Austen, del et lith

Maclure & C° Imp

MACROCHLAMYS

1 richilaensis. 2. damsangensis

PLATE CVI.

[Part X.—*April* 1907.]

Macrochlamys sequax, Bs. Darjiling. (Ex Blanford Collection.)

Fig. 1. Shell, × 2·4: typical.
1 *a*. Genitalia, × 8.
1 *b*. Jaw, × 24.
1 *c*. Admedian teeth of radula, 10th to 16th.
1 *d*. Outermost teeth.

Macrochlamys sequius, n. sp. Damsang.

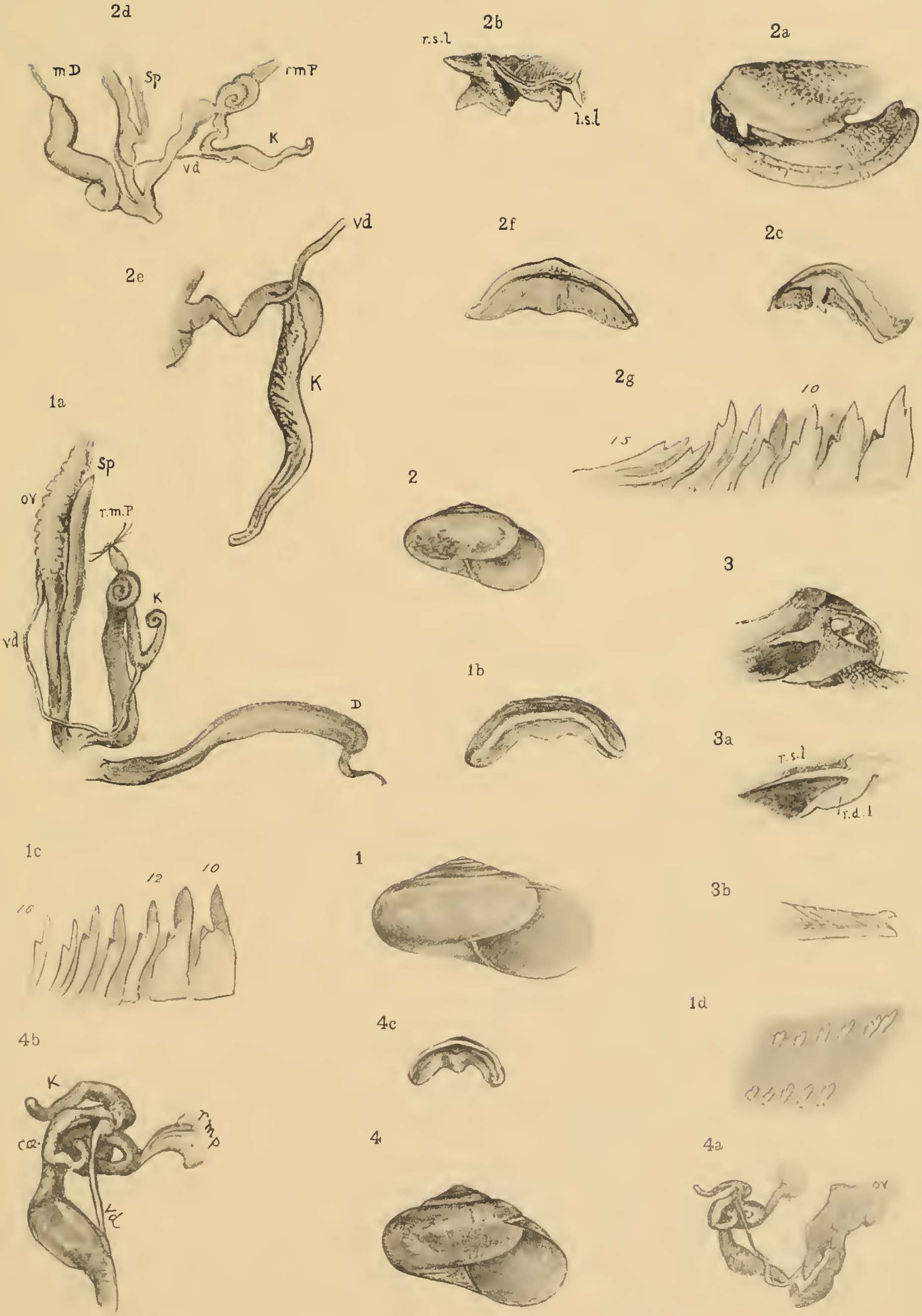
Fig. 2. Shell, × 2·5.
2 *a*. Animal, viewed from left side: shell removed, showing visceral sac, × 8.
2 *b*. Edge of mantle, showing shell- and neck-lobes, × 4.
2 *c*. Ditto, showing left shell-lobe.
2 *d*. The generative organs, × 8.
2 *e*. Kalk-sac or flagellum, with spermatophore forming.
2 *f*. Jaw, × 24.
2 *g*. Portion of row of radula, 8th to 15th admedian teeth.

Macrochlamys sequax?, Bs. Darjiling. (From Colonel Mainwaring.)

Fig. 3. Right side: right shell-lobe in life.
3 *a*. Ditto: ditto, more extended.
3 *b*. Extremity of foot in life.

Macrochlamys sathilaensis, n. sp. Richila.

Fig. 4. Shell, × 2·5.
4 *a*. Part of the generative organs, × 4·5.
4 *b*. The penis (*cæ*, cæcum), × 8.
4 *c*. Jaw, × 12.



H. H. Godwin-Austin, del.

MACROCHLAMYS.

F. W. Reader, Sculp.

PLATE CVII.

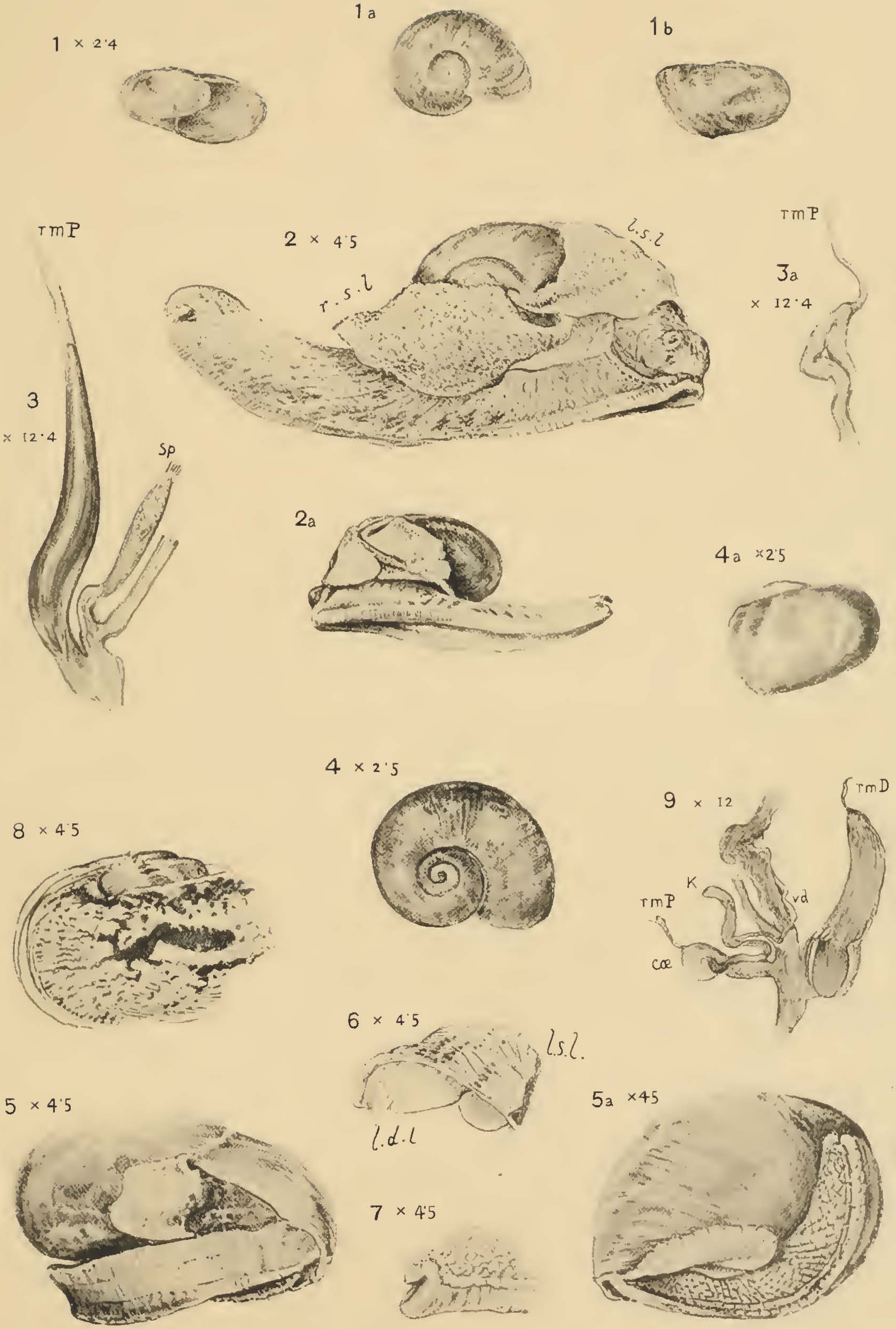
[Part X.—*April* 1907.]

AUSTENIA SILCHARENSIS, n. sp. Cachar.

Fig. 1, 1 *a*, 1 *b*. Shell, × 2·4.
2. Animal, view of right side, showing the large shell-lobes, × 4·5
2 *a*. View of the left side, × 2.
3. Part of generative organs: amatorial organ, spermatheca, × 12·4.
3 *a*. The male organ detached from above, × 12·4.

AUSTENIA ZEMOENSIS, n. sp. Sikkim.

Fig. 4, 4 *a*. Shell, × 2·5.
5. Animal, view of right side, × 4·5.
5 *a*. Ditto, left side, × 4·5.
6. Edge of mantle, detached, showing left shell-lobe and left dorsal lobe, × 4·5.
7. Extremity of foot, × 4·5.
8. Anterior portion of the visceral sac, × 4·5.
9. The genitalia, × 12.



H. H. Godwin-Austen, del.

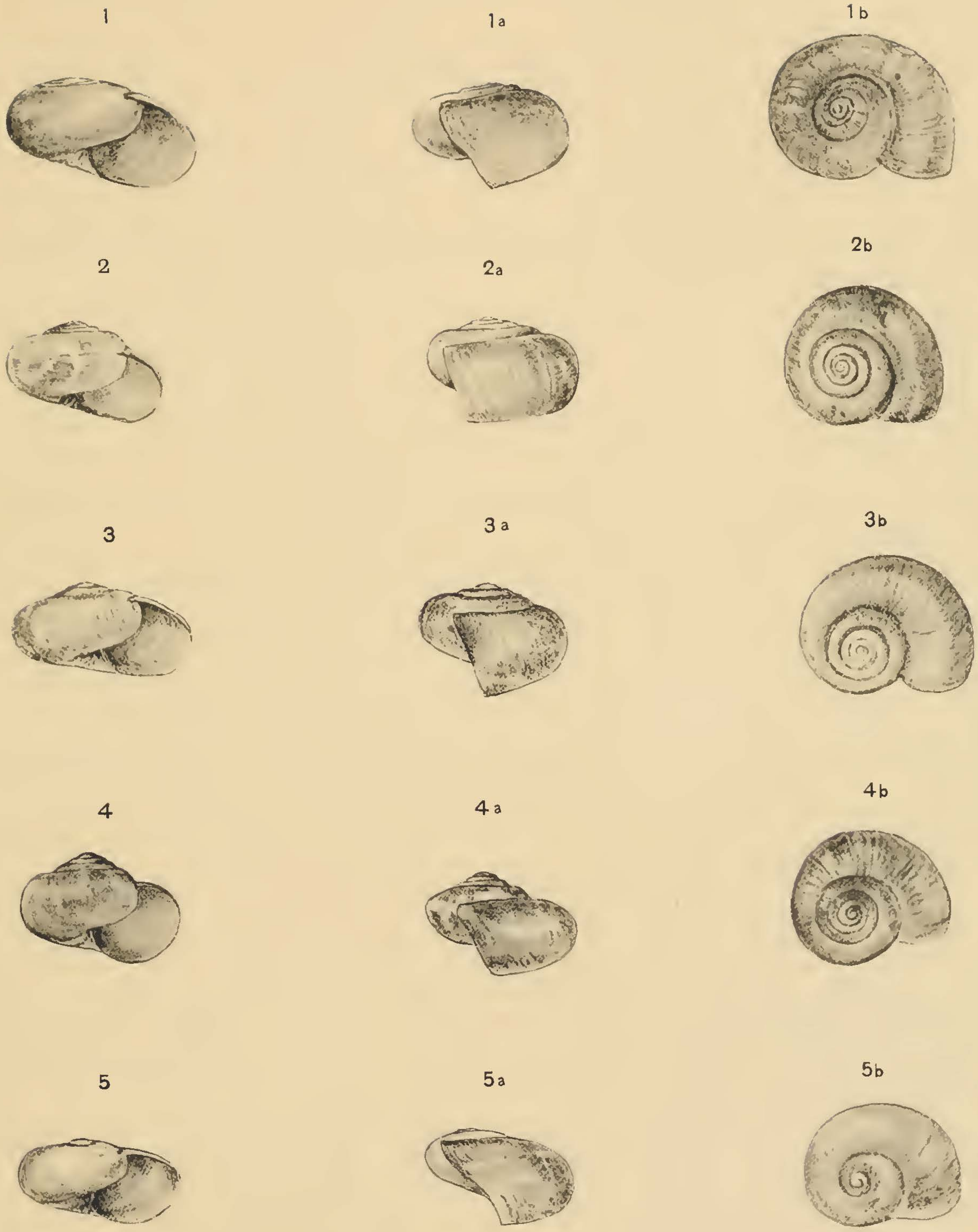
AUSTENIA.

F. W. Reader, Sculp.

PLATE CVIII.

[Part X.—*April* 1907.]

Fig. 1, 1 *a*, 1 *b*. Macrochlamys beata, n. sp., × 2·5.
2, 2 *a*, 2 *b*. —— razamiensis, n. sp., × 2·5.
3, 3 *a*, 3 *b*. —— mahadeoensis, n. sp., × 2·5.
4, 4 *a*, 4 *b*. —— hengdanensis, n. sp., × 2·5.
5, 5 *a*, 5 *b*. Austenia durrangensis, n. sp., × 2·5.—See Plate CXI. figs. 7–7 *c* (animal).



H. H. Godwin-Austen, del.

MACROCHLAMYS & AUSTENIA.

F. W. Reader, Sculp.

PLATE CIX.

[Part X.—*April* 1907.]

MACROCHLAMYS HODGSONI, Bs. (Blanford MS.).

Fig. 1.	Shell, × 4: typical.	Darjiling.
1 *a*.	Sculpture, × 75.	Ditto.
2.	Shell, × 4·5.	Western Sikkim.
2 *a*.	Animal, left side, × 12·4. From spirit-specimen.	Ditto.
2 *b*.	Ditto, right side, × 12·4. From spirit-specimen.	Ditto.
2 *c*.	Central and outer teeth of radula.	Ditto.
2 *d*.	Jaw, × 58.	Ditto.

MACROCHLAMYS RORIDA, Bs. Darjiling.

Fig. 3.	Shell, × 4: typical.	
3 *a*.	Foot.	
3 *b*.	Mantle-zone, with shell- and dorsal lobes.	
4.	MACROCHLAMYS FRAGOSUS, n. sp., × 4.	Dafla Hills.
5.	—— PERFRAGILIS, Nevill MS., × 4.	Sikkim.
6.	—— SUPERFLUA, W. Blf., very young, × 7.	Darjiling.
7.	—— SEQUIUS, G.-A., very young, × 7.	Ditto.
8, 8 *a*.	—— SPRETA, W. T. Blf., × 4.	Pegu.
9.	—— SALWINENSIS, n. sp., × 4.	Tenasserim.
10, 10 *a*.	—— HOOKERI, n. sp., × 2·4.	Cherra Poonji.

H. H. Godwin-Austen, del.

MACROCHLAMYS.

F. W. Reader, Sculp.

PLATE CX.

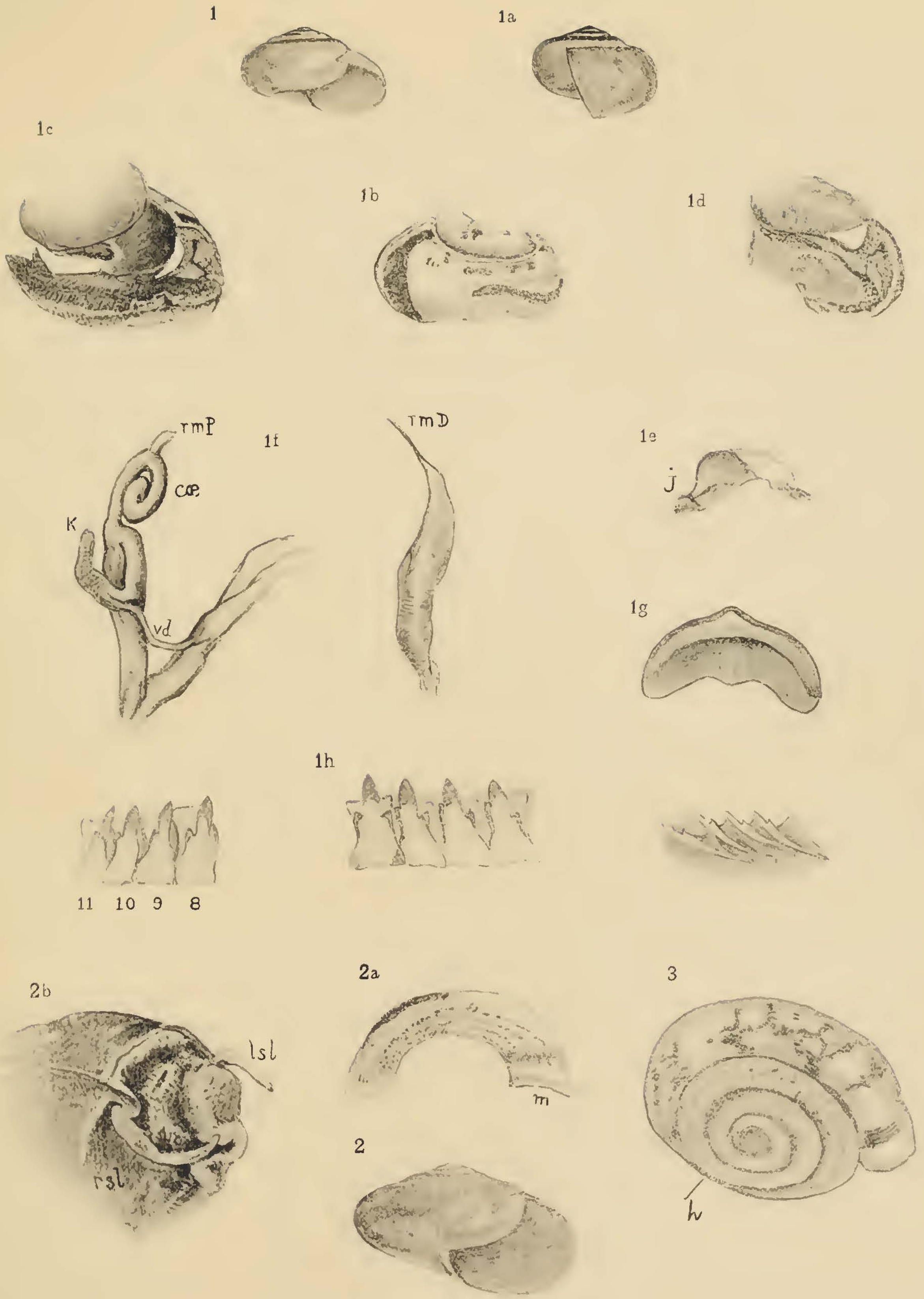
[Part X.—*April* 1907.]

MACROCHLAMYS ZEMOENSIS, n. sp. Sikkim.

Fig. 1, 1 *a*. Shell, × 2·5.
- 1 *b*. Visceral sac, × 4·5.
- 1 *c*. Animal, right side, from spirit-specimen, × 4·5.
- 1 *d*. Ditto, left side, ditto.
- 1 *e*. Buccal mass and salivary gland : *j*, jaw, × 4·5.
- 1 *f*. Generative organs, amatorial separated from, × 12.
- 1 *g*. Jaw, × 30.
- 1 *h*. Central and side teeth of the radula, × 368.

MACROCHLAMYS RAKAENSIS, n. sp. Sikkim.

Fig. 2. Shell, × 4·5.
- 2 *a*. Visceral sac, × 4·5.
- 2 *b*. Head with mantle-zone and shell-lobes.
- 3. BENSONIA CAMURA, Bs.: visceral sac, to show the typical marking of, × 4·5.



H. H. Godwin-Austen, del. F. W. Reader, Sculp.

1 & 2. MACROCHLAMYS.
3. BENSONIA.

PLATE CXI.

[Part X.—*April* 1907.]

TAPHROSPIRA BATHYCHARAX, Bs., MS. South Andaman.

Fig. 1. Part of animal from left side, showing left shell-lobe and extremity of foot, × 4·5.
1 *a*. Right shell-lobe, × 4·5. (*vs.*, visceral sac.)
1 *b* Jaw, × 12.
1 *c*. Genitalia, × 8.
1 *d*. Left dorsal lobe and left shell-lobe, viewed from below, × 8. (*m*, mantle-zone.)
1 *e*. Part of the spermatheca, × 24, with portions of capsules of spermatophores.
1 *f*. Flume of a spermatophore, from above.

MACROCHLAMYS EXUL, Theobald. South Andaman.

Fig. 2. The mantle-zone removed from the animal: the right and left shell-lobes, × 4·5.
2 *a*. The right shell-lobe, × 8.
2 *b*. The genitalia, × 8.
2 *c*. Jaw, × 24.
2 *d*. Teeth of the radula at different parts of the row.

SARIKA RESPLENDENS, Phil. Mergui.

Fig. 3. Genitalia, with a spermatophore, × 4·5.
3 *a*. End of the dart, × 4·5.

MACROCHLAMYS BEATA, G.-A. Dafla Hills.

Fig. 4. Teeth of the radula at different parts of the row, × 550.

MACROCHLAMYS RAZAMIENSIS, G.-A. Naga Hills.

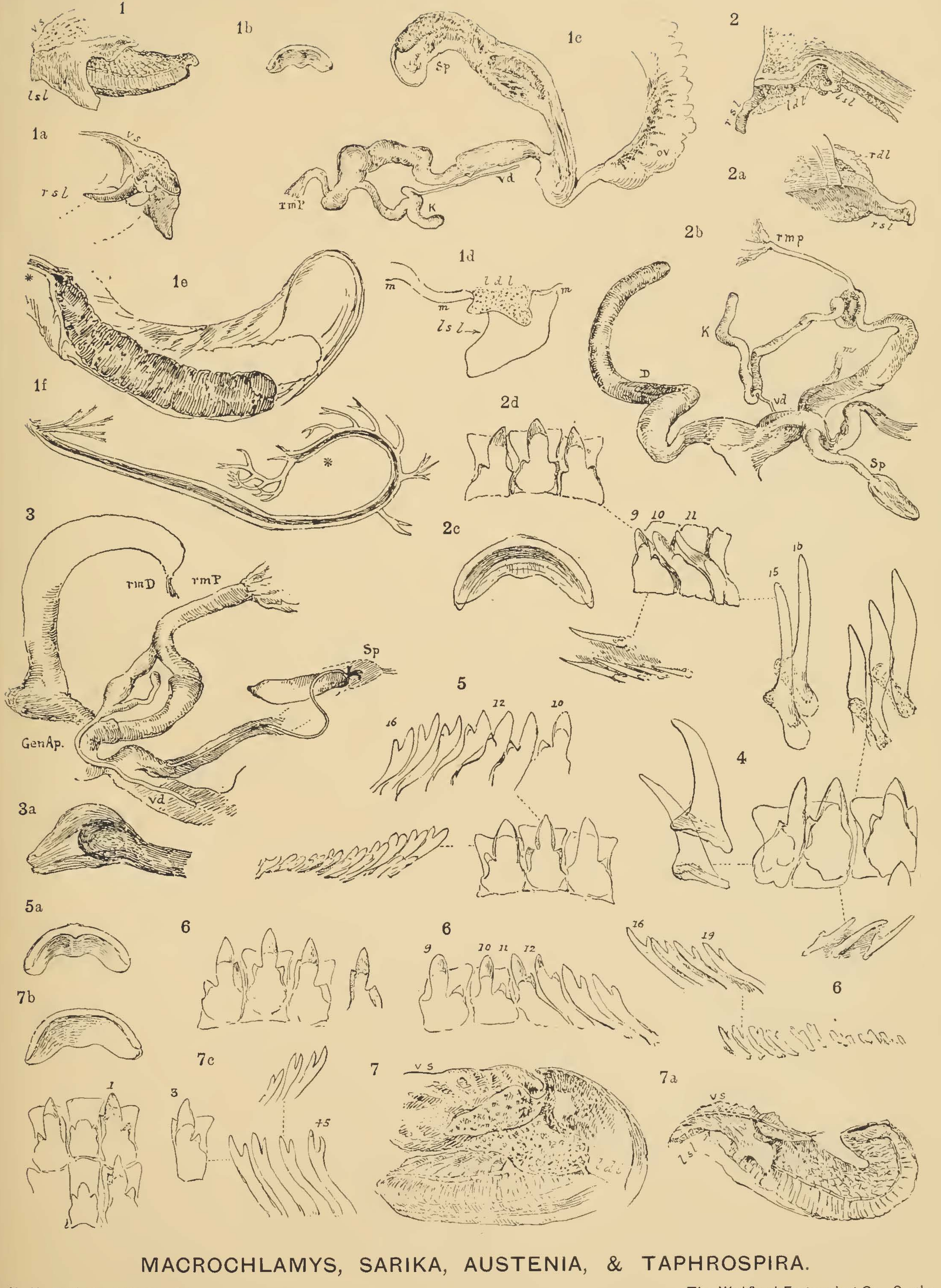
Fig. 5. Teeth of the radula at different parts of the row, × 550.
5 *a*. Jaw, × 24.

MACROCHLAMYS MAHADEOENSIS, G.-A. North Cachar Hills.

Fig. 6. Teeth of radula, × 500.

AUSTENIA DURRANGENSIS, G.-A. Durrang District, Assam.

Fig. 7. Part of animal on the right side, near aperture: shell-lobes, × 8.
7 *a*. Ditto, left side, showing left shell-lobe, × 8.
7 *b*. Jaw, × 24.
7 *c*. Central teeth of the radula, × 550. Laterals near the 45th tooth, × 950.



MACROCHLAMYS, SARIKA, AUSTENIA, & TAPHROSPIRA.

H. H. Godwin-Austen, del.

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PLATE CXII.

[Part X.—*April* 1907.]

Philalanka thwaitesi, Pfeiffer. Ceylon.

Fig. 1. Generative organs, × 12·5.

1 *a*. Jaw, × 163.

1 *b*. Jaw, the edge of, × 196.

1 *c*. Teeth of radula at different parts of a row, × 1100.

Thysanota crinigera, Benson. Southern India.

Fig. 2. Animal removed from the shell, showing foot, visceral sac, and mantle-edge.

2 *a*. Teeth of the radula at different parts, × 920.

2 *b*. Jaw, central part of, × 196.

2 *c*. Jaw, × 24.

2 *d*. Buccal mass and salivary gland &c., × 12.

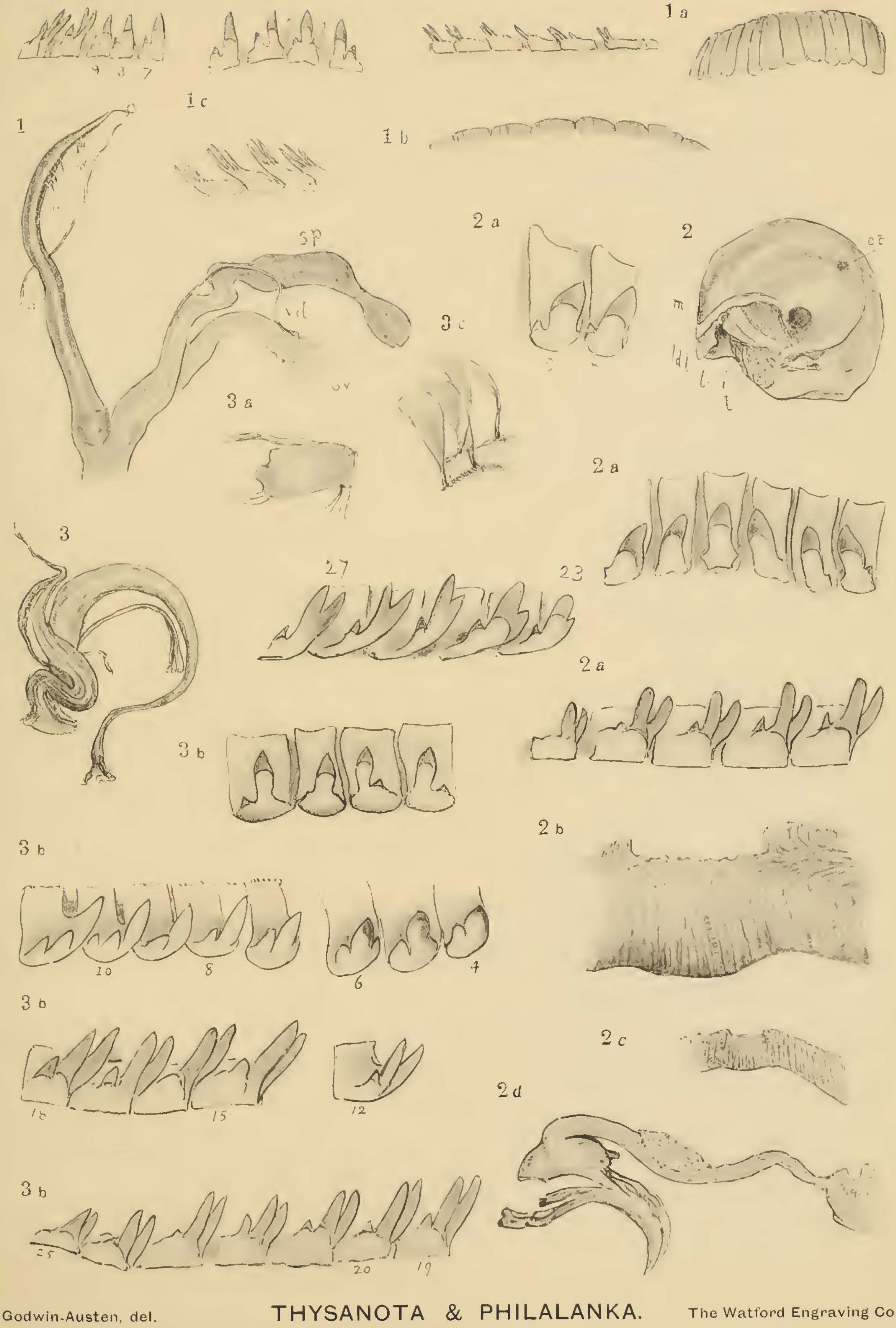
Sykesia biciliata, Pfeiffer. Ceylon.

Fig. 3. Generative organs, × 12.

3 *a*. Buccal mass, × 12.

3 *b*. Teeth of radula at different parts of the row, × 920.

3 *c*. Spatulate epidermal hairs of shell, × 24.



H. H. Godwin-Austen, del. THYSANOTA & PHILALANKA. The Watford Engraving Co., Sculp.

PLATE CXIII.

[Part X.—*April* 1907.]

STAFFORDIA DAFLAENSIS, G.-A.

Fig. 1. Shell, × 2·4.

1 *a.* Animal, 1st specimen found, drawn from life.

1 *b.* Ditto, ditto, extremity of foot.

1 *c.* Foot, spirit-specimen, × 4·5.

1 *d.* Animal from right side, showing right shell-lobe.

1 *e.* Ditto from left side, showing left shell-lobe, × 4·5.—Part of branchial wall removed, showing penis and its retractor muscle, × 4·5.

1 *f.* Jaw, × 12.

1 *g.* Teeth of radula at different parts of the row, × 360.

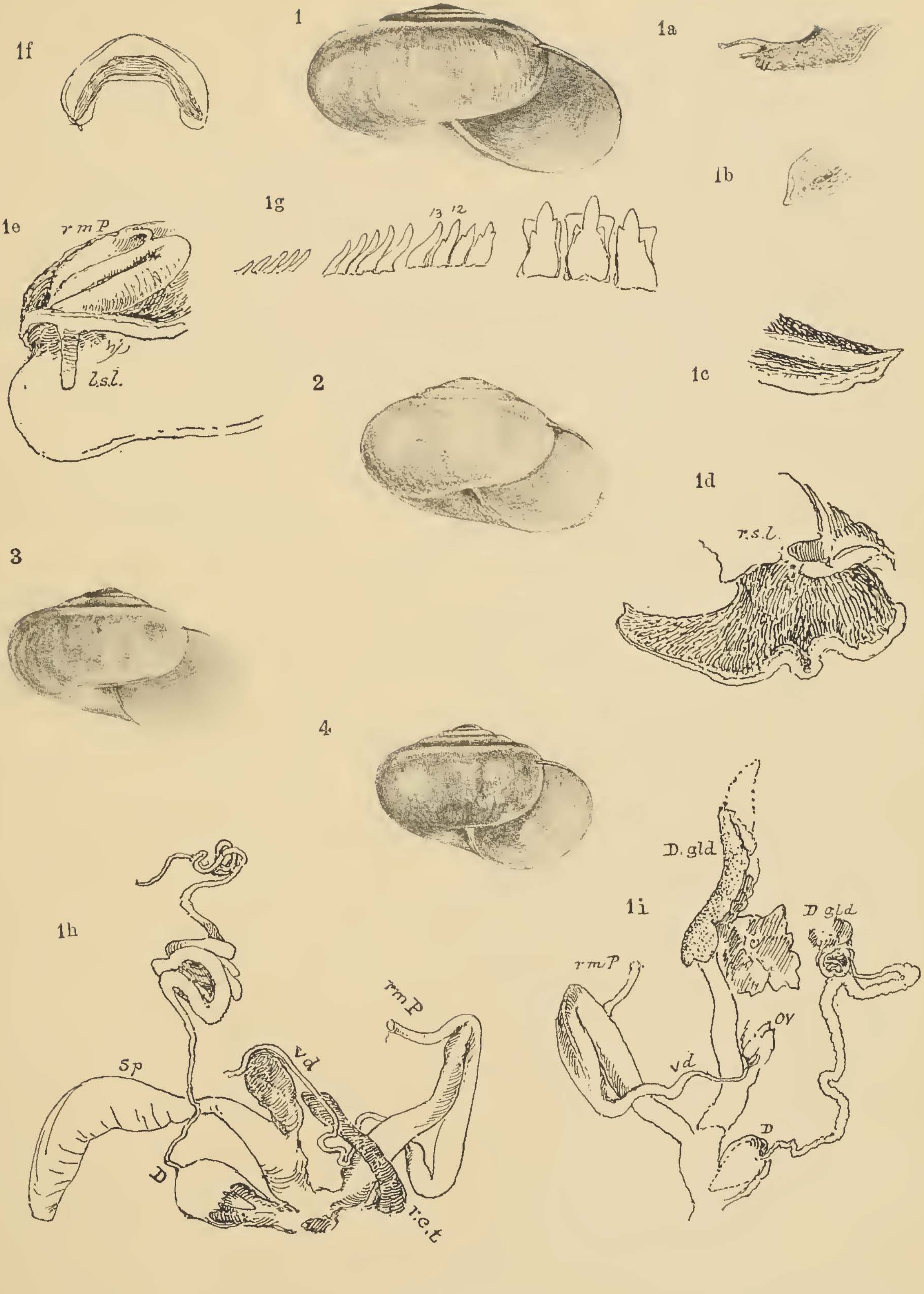
1 *h.* Genitalia, 1st specimen dissected, × 5.

1 *i.* Ditto, 2nd specimen dissected, × 4·5.

2. STAFFORDIA DAFLAENSIS, var., × 2·4.

3. —— ? TORUPUTUENSIS, G.-A., × 2·4.

4. —— STAFFORDI, G.-A., × 2·4.



H. H. Goodwin-Austen, del.

STAFFORDIA.

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PLATE CXIV.

[Part X.—*April* 1907.]

EUPLECTA HYPHASMA, Pfeiffer. Ceylon.

Fig. 1. Genitalia, × 12.

1 *a*. Posterior end of penis, showing spermatophore in process of formation, × 24.

PLECTOPYLIS PINACIS, Bs. Damsang, Sikkim.

Fig. 2. Side of visceral sac, distant one whole whorl from the aperture, showing position of the heart and kidney and part of oviduct. Drawn by eye.

2 *a*. Genitalia, the oviduct broken and emptied of embryonic shells, × 4·5.

2 *b*. Distal end of the oviduct with embryos in different stages of development, the hermaphrodite-duct and albumen-gland, part of intestine and mucous glands, × 4·5.

2 *c*. Jaw, × 12·4.

2 *d*. Teeth of radula at various parts of the row, × 570.

CORILLA GUDEI, Sykes. Ceylon.

Fig. 3. Right side of foot, × 8.

3 *a*. Animal partly withdrawn into aperture, showing shell- and dorsal lobes, × 4·5.

3 *b*. Buccal mass and salivary glands, × 4·5.

3 *c*. Portion of liver, showing structure, × 8.

3 *d*. Teeth of radula at various parts of the row, × 368.

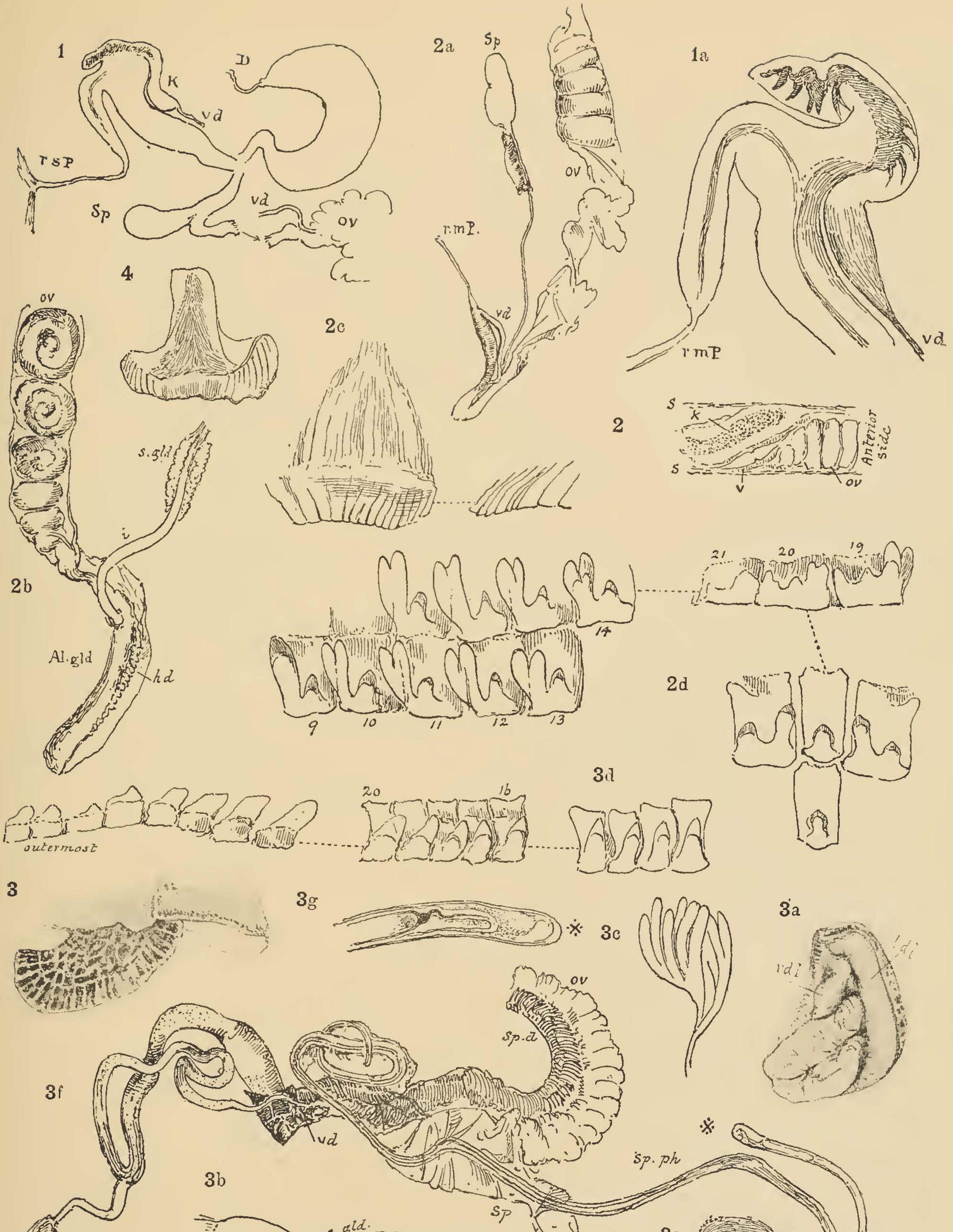
3 *e*. Jaw, × 12.

3 *f*. Generative organs, × 4·5.

3 *g*. Ditto, terminal end of spermatophore, × 12.

THYSANOTA GUERINI, Pfr. Nilgherries.

Fig. 4. Jaw, × 12.



EUPLECTA, PLECTOPYLIS & CORILLA.

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXV.

[Part X.—*April* 1907.]

Leptodontarion hiraseanus, Pilsbry. South Formosa.

Fig. 1. Animal, view of the right side, from a spirit-specimen, × 4·5.
1 *a*. Ditto, left side.
1 *b*. Shell, × 4·5.

Petalochlamys formosana, Schmacker & Boettger, var. hypograpta, Pilsbry & Hirase. South Formosa.

Fig. 2. Animal, part of the right side and foot, × 4·5.
2 *a*. Ditto, left side and foot, × 4·5.
2 *b*. Shell, × 4·5.

Lamprocystis fulgida, n. sp. South Formosa.

Fig. 3. Foot of the animal, with shell, viewed from above and right side, × 4·5.
3 *a*. Animal, viewed from the left side, × 4·5.
3 *b*. Extremity of foot, × 12·4.
3 *c*. Ditto, showing mucous gland and sole of the foot, × 12·4.
3 *d*. Right shell-lobe and portion near the rectum, × 12·4.
3 *e*. Shell, front view, × 4·5.
3 *f*. Ditto, from above, × 4·5.

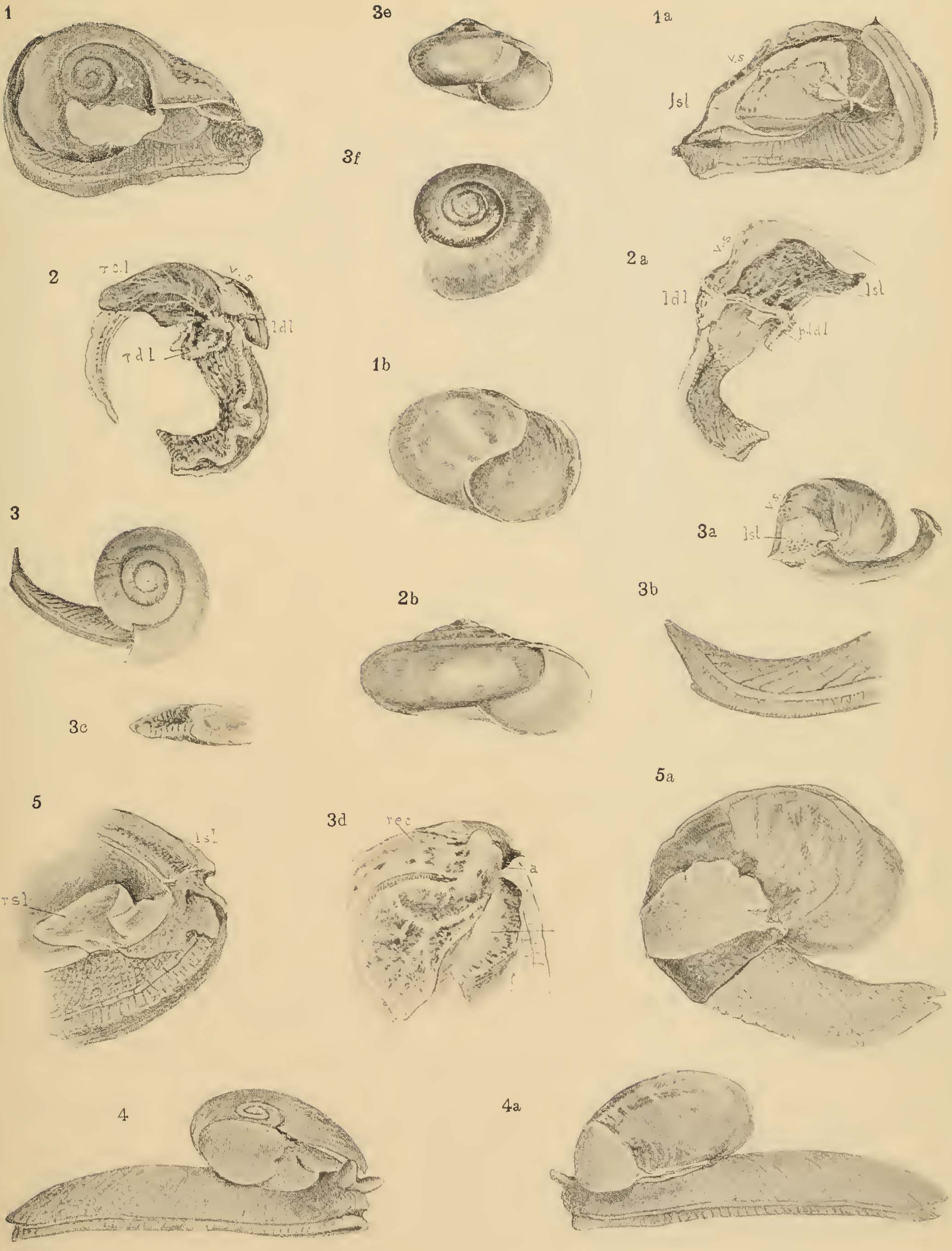
Durgella rogersi, n. sp. South Andaman Islands.

Fig. 4. Animal, viewed from the right side, × 4·5.
4 *a*. Ditto, viewed from the left side, × 4·5.

Sophina calias, Benson. Mergui.

Fig. 5. Animal, part of, showing right shell-lobe, × 4·5.
5 *a*. Ditto, view of the left side and extremity of foot, × 4·5.

Plate CXV.



DURGELLA, LEPTODONTARION, PETALOCHLAMYS, & SOPHINA.

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXVI.

[Part X.—*April* 1907.]

SARIKA PUMICATA, Morelet. Siam.

Fig. 1. Genitalia, parts separated, × 4·5.
1 *a*. Mantle-edge removed, showing shell- and dorsal lobes, × 4·5.
1 *b*. Teeth of the radula at different parts of the row, × 368.
1 *c*. Jaw, × 12.

SARIKA RESPLENDENS, Phil. Mergui.

Fig. 2. Mantle-edge removed, showing shell- and dorsal lobes, × 4·5.
2 *a*. Teeth of radula at different parts of the row, × 368.
2 *b*. Jaw, × 12.

SOPHINA CALIAS, Bs. Mergui.

Fig. 3. Generative organs, × 4·5.

LEPTODONTARION HIRASEANUS, Pilsbry. South Formosa.

Fig. 4. Genitalia, part of, × 4·5.
4 *a*. Spermatheca and adjacent parts, × 12.
4 *b*. The male organs, × 12.
4 *c*. Teeth of the radula at different parts of the row, × 1100.
4 *d*. Jaw, × 30.

PETALOCHLAMYS FORMOSANA var. HYPOGRAPTA, Pilsbry & Hirase. South Formosa.

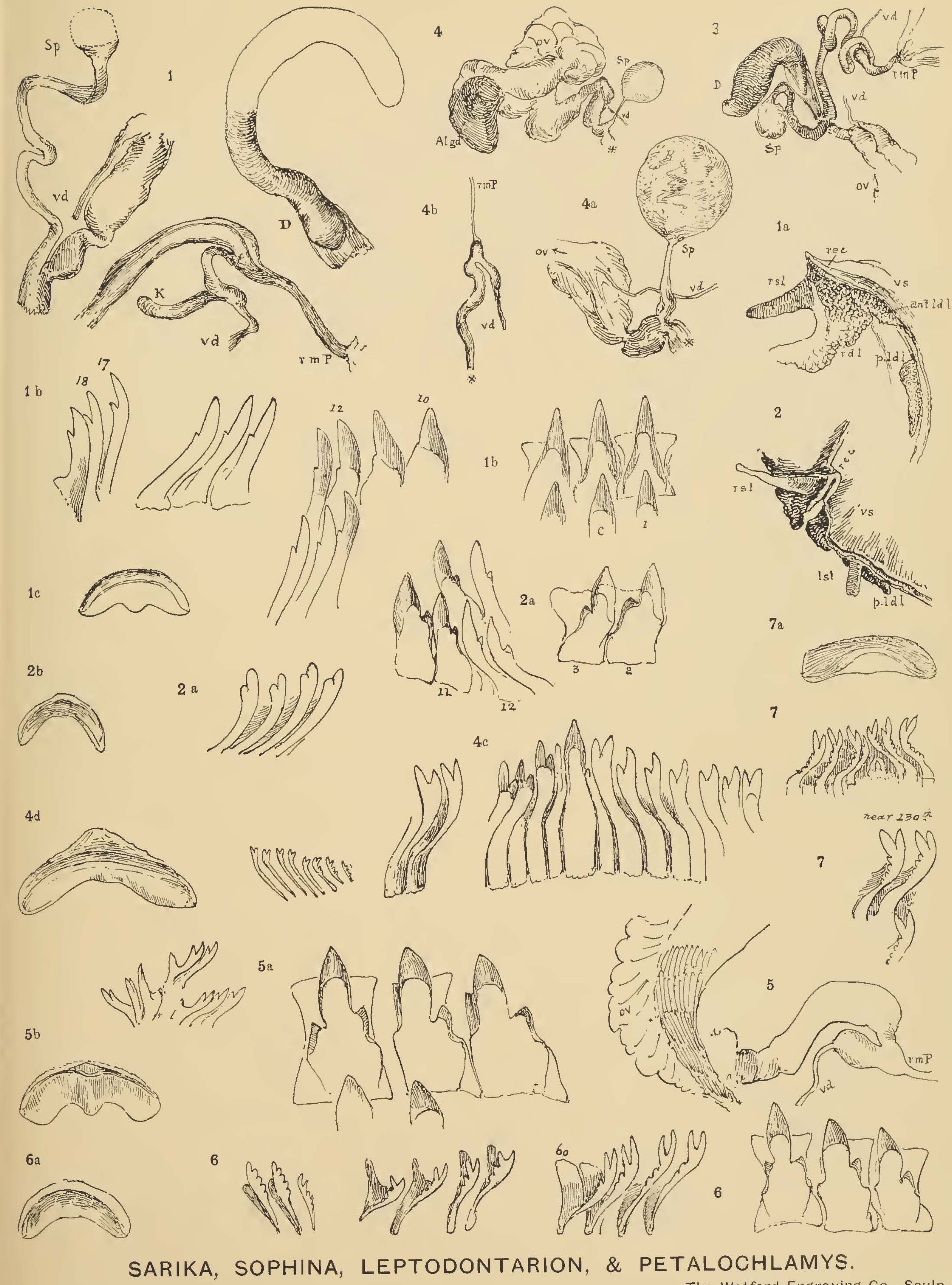
Fig. 5. Portion of generative organs, penis &c., × 4·5.
5 *a*. Teeth of the radula at different parts of the row, × 1100.
5 *b*. Jaw, × 30.

LAMPROCYSTIS FULGIDA, n. sp. South Formosa.

Fig. 6. Teeth of the radula at different parts of the row, × 1100.
6 *a*. Jaw, × 30.

DURGELLA ROGERSI, n. sp. South Andaman.

Fig. 7. Teeth of the radula, × 1100.
7 *a*. Jaw, × 30.



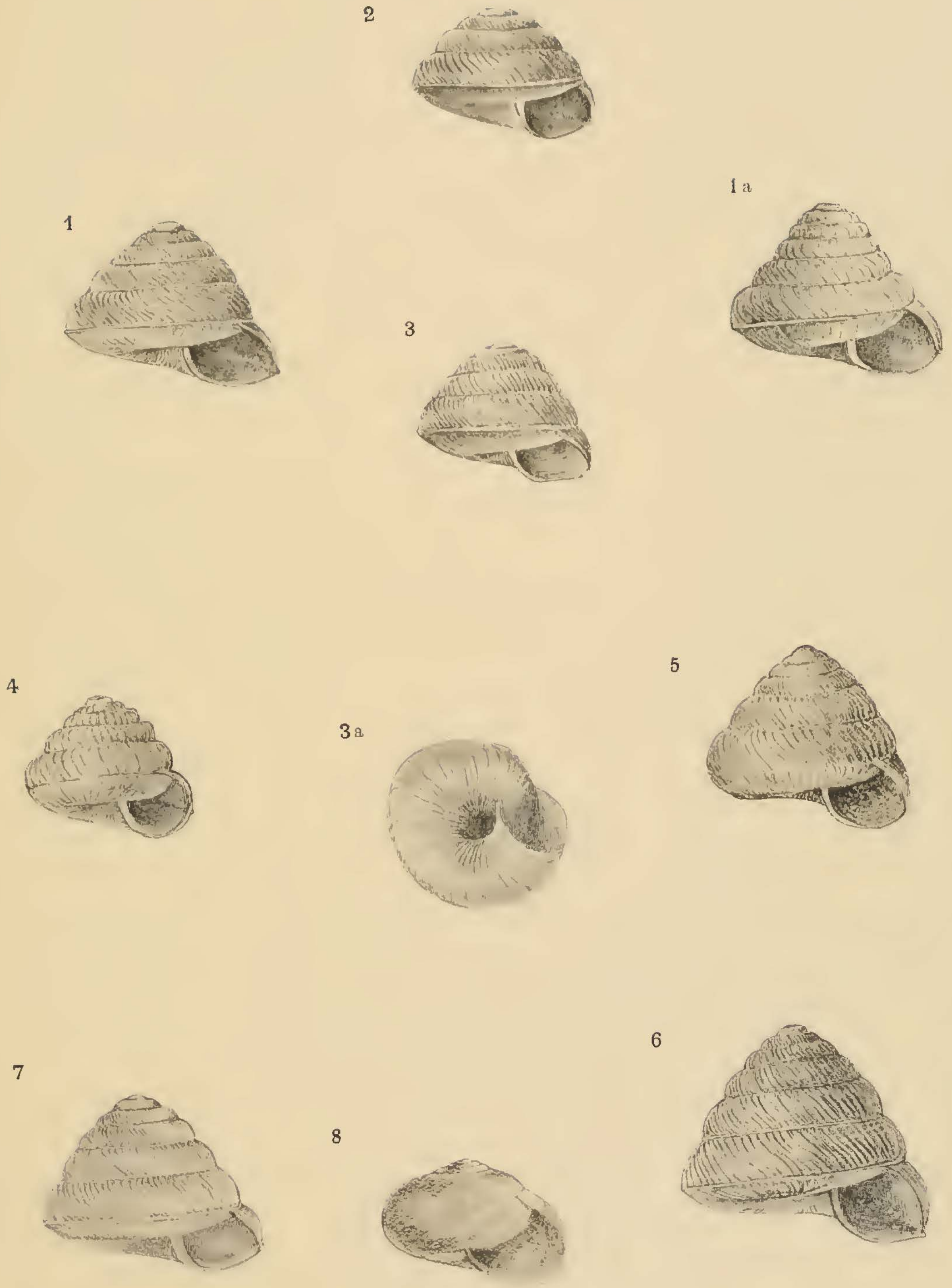
SARIKA, SOPHINA, LEPTODONTARION, & PETALOCHLAMYS.

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXVII.

[Part X.—*April* 1907.]

Fig. 1.	RAHULA BASCAUDA, Benson: costulation fine and close. × 7.	Teria Ghat.
1 *a*.	Ditto: costulation distant, × 7.	Ditto.
2.	RAHULA POLYPLEURIS, W. T. Blf., × 7.	Arakan.
3, 3 *a*.	—— BASCAUDA, Bs., × 7.	Jaintia.
4.	—— MUNIPURENSIS, n. sp., × 7.	Munipur Hills.
5.	—— DAFLAENSIS, n. sp., × 7.	Dafla Hills.
6.	—— LHOTAENSIS, n. sp., × 7.	Lota Naga Hills.
7.	—— BASCAUDULA, n. sp., × 7.	Sikkim.
8.	MACROCHLAMYS (LAMPROCYSTIS ?) FULGENS, Gude, from type, × nearly 4.	Lu-chu Islands.



RAHULA, &c.

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXVIII.

[Part XI.—*March* 1910.]

Fig. 1, 1 *a*, 1 *b*.	Macrochlamys subjecta. Bs., × 2·4.	Rajmahal on Ganges.
2, 2 *a*, 2 *b*, 2 *c*.	—— vesica, n. sp., × 2·4.	Teria Ghat, Khasi Hills. (Type.)
3, 3 *a*, 3 *b*, 3 *c*.	—— vesica, n. sp., × 2·4.	Chatak, Sylhet.
3 *d*.	—— ——, another specimen.	Ditto.
4, 4 *a*, 4 *b*, 4 *c*.	—— vesica var. anomala, × 2·4.	Maosmai, near Cherra Poonjee, Khasi Hills.
5, 5 *a*, 5 *b*, 5 *c*.	—— vesica, × 2·4.	Hengdan Peak, Naga Hills.

MACROCHLAMYS.

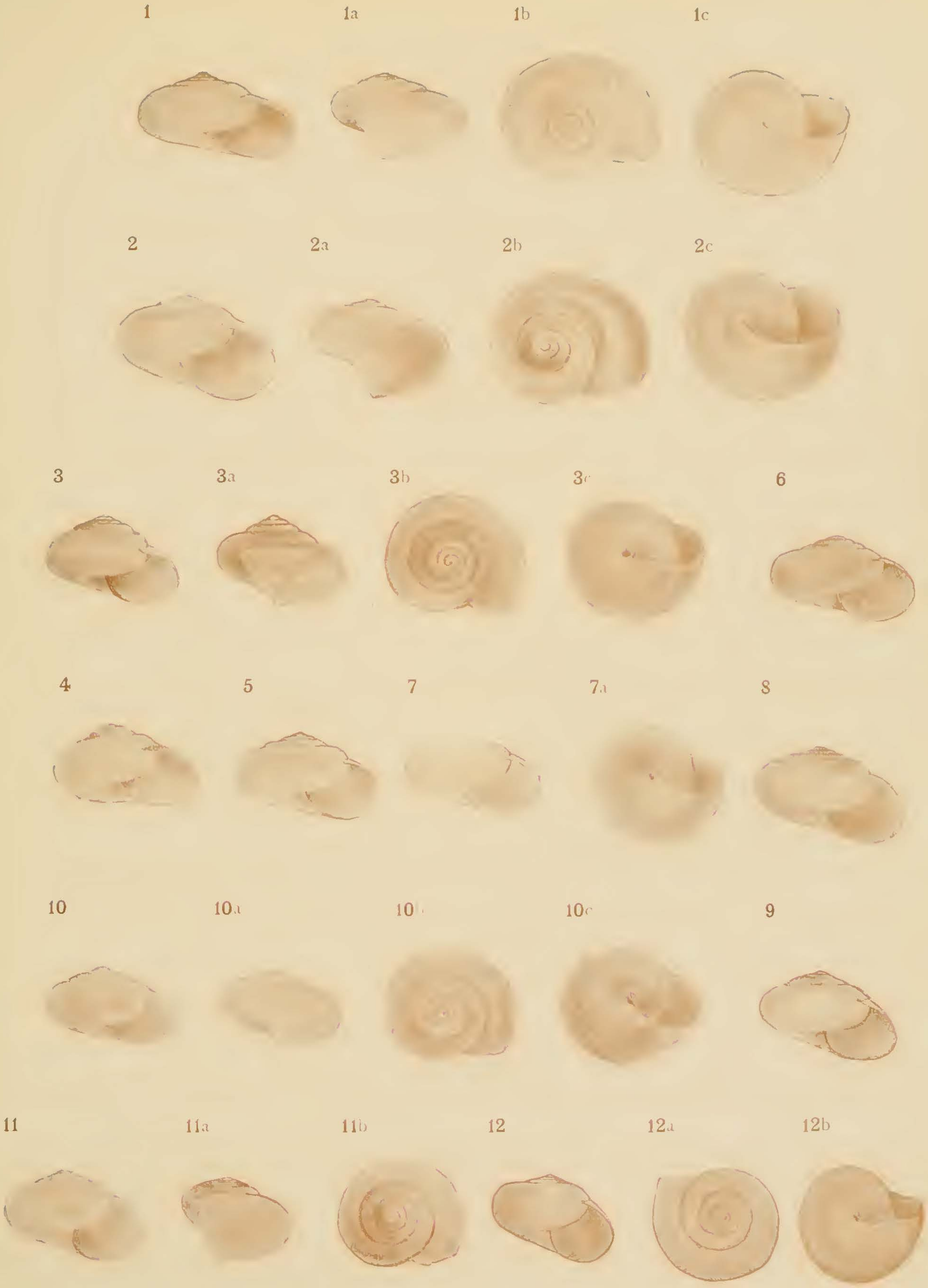
H. H. Godwin-Austen, del.

Watford Engraving Coy. Sculp.

PLATE CXIX.

[Part XI.—*March* 1910.]

Fig. 1, 1 *a*, 1 *b*, 1 *c*.	Macrochlamys vesica var. oglei, n., × 1·2.	Brahmakund, Assam.
2, 2 *a*, 2 *b*, 2 *c*.	Cryptaustenia moyongensis, n. sp., × 1·2.	Moyong, Khasi.
3, 3 *a*, 3 *b*, 3 *c*.	Macrochlamys sufflava, n. sp., × 1·2.	North Cachar.
4.	—— ——, type, × 1·2.	Lhota Naga Hills.
5.	—— ——, × 4·2.	Do., another specimen.
6.	—— ——, × 4·2.	Burrail Range.
7, 7 *a*.	—— ——, × 4·2.	Naga Hills.
8.	—— lubricata, n. sp., × 1·2.	Lhota Naga Hills.
9.	—— sufflava, n. sp., × 4·2.	Eastern Burrail Range.
10, 10*a*, 10*b*, 10*c*.	—— andersoniana, G. Nevill, × 1·2.	Bhamo.
11, 11 *a*, 11 *b*.	—— lubricata, n. sp., × 1·2.	Burrail Range, Naga.
12, 12 *a*, 12 *b*.	—— quæsita, n. sp., × 1·2.	Ditto.



MACROCHLAMYS.

H. H. Godwin-Austen, del.

Watford Engraving Coy. Sculp.

PLATE CXX.

[Part XI.—*March* 1910.]

MACROCHLAMYS VESICA, n. sp. Ainakhal, Cachar.

Fig. 1. Head with mantle zone from left side, showing left shell-lobe, &c., × 4·5.
1 *a.* Genitalia, × 4·5.
1 *b.* Ditto of another specimen, × 4·5.
1 *c.* Jaw, × 30.

MACROCHLAMYS VESICA var. OGLEI. Diyung Valley, Singpho Hills.

Fig. 2. Genitalia, × 4·5.
2 *a.* The kale-sac, with spermatophore forming in, × 12.
2 *b.* Radula, some of the admedian and lateral teeth.

MACROCHLAMYS POLITULA, G.-A. Singpho Hills.

Fig. 3. Mantle-margin from the front, showing right shell-lobe and dorsal lobes, × 4·5.
3 *a.* Ditto, showing left shell-lobe and left dorsal lobes, × 4·5.
3 *b.* Genitalia, part of, × 8.
3 *c.* Jaw, × 24.
3 *d.* Teeth of the radula at different parts of the row, much enlarged.

MACROCHLAMYS.

H. H. Godwin-Austen, del.

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PLATE CXXI.

[Part XI.—*March* 1910.]

Figs. 1, 1 *a*.	MACROCHLAMYS VESICULA, Bs., × 2·5.	Mussoorie, N.W. Himalaya.
2.	—— VESICA, var., × 2·4.	Cachar.
3.	—— GAROENSIS, n. sp., × 2·4.	Garo Hills.
4, 4 *a*.	—— KURTZI, n. sp., × 2·4.	Arakan.
5.	—— CACHARICA var. GLAUCA, × 2·4.	Borpani, Dafla Hills.
6.	—— RABANI, n. sp. × 2·4.	Chittagong.
7.	—— PROBA, n. sp., × 2·4.	Thyetmyo, Burma.
8.	SAKIELLA? FIDA, n. sp., × 2·4.	Ditto.
9.	MACROCHLAMYS CINCTULA, n. sp., × 2·4.	Dounggying, Burma.
10.	—— LUBRICATA, n. sp. Type.	Silchar, Cachar.
11, 11 *a*.	—— ANDERSONIANA, Nevill. Type.	Ponsee, Yunan.
12.	SAKIELLA HONESTA, Gould.	

MACROCHLAMYS AND SAKIELLA

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PLATE CXXII.

[Part XI.—*March* 1910.]

MACROCHLAMYS SUFFLAVA, n. sp. Typical. Lhota Naga Hills.

Fig. 1. Genitalia, × 8. With spermatophore within the spermatheca. Amatorial organ shown detached.

1 *a*. A portion of the spermatophore, part of the flume, much enlarged.

1 *b*. Ditto Ditto end of capsule, × 46.

1 *c*. Ditto Ditto spines at base of capsule, × 46.

MACROCHLAMYS SUFFLAVA, n. sp. Eastern Burrail Range.

Fig. 2. Genitalia, × 19. *ep*, epiphallus.

2 *a*. Portion of the male organ, at retractor muscle attachment, with small coiled cæcum.

2 *b*. Portion seen from the other side, much enlarged.

2 *c*. Jaw, × 12.

MACROCHLAMYS SUFFLAVA, n. sp. Naga Hills.

Fig. 3. Spermatophore, part of. *cap*, capsule; *fl*, flume, much enlarged.

MACROCHLAMYS SUFFLAVA, n. sp. Hengdan Peak, N. Cachar.

Fig. 4. Part of the radula, × 368.

MACROCHLAMYS VESICA var. OGLEI, n. Diyung Valley, Singpho Hills.

Fig. 5. Mantle-zone showing shell-lobes detached from the animal, × 6·5.

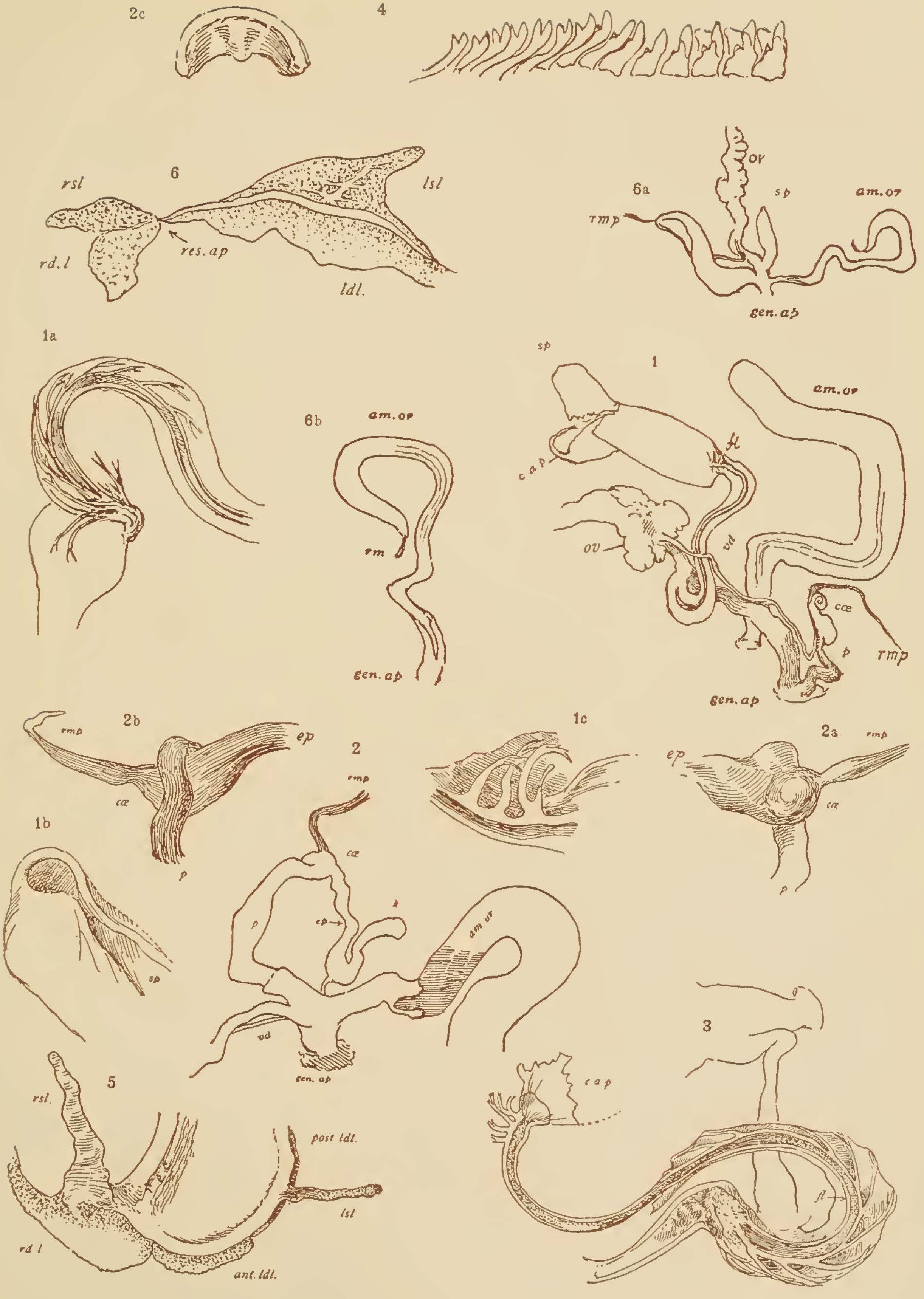
CRYPTAUSTENIA MOYONGENSIS, n. sp. N. Khasi Hills.

Fig. 6. Mantle-zone detached from the animal, × 4·5.

6 *a*. Genitalia, part of, × 4·5.

6 *b*. Amatorial organ, × 8.

am. or, amatorial organ; *cæ*, cæcum near retractor muscle of penis; *gen. ap*, generative aperture; *ov*, oviduct; *p*, penis; *r.m,p*, retractor muscle of penis; *fl*, flume of spermatophore, *vide* fig. 1 *c*; *cap*, capsule of spermatophore, *vide* fig. 1 *b*.



MACROCHLAMYS AND CRYPTAUSTENIA.

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PLATE CXXIII.

[Part XI.—*March* 1910.]

Fig. 1, 1 *a*.	EUAUSTENIA LUMSDENI, n. sp., × 2·5.	Kuram Valley, N.W. Frontier.
2, 2 *a*.	MACROCHLAMYS HERBIA, n. sp., × 4·5.	Naga Hills.
3, 3 *a*.	—— PROPINQUA, n. sp., × 4·5.	Ditto.
4.	—— GANJAMENSIS, n. sp., × 2·5.	Ganjam.
5.	—— ——, another specimen, × 2·5.	Ditto.
6.	—— VERTEX, n. sp., × 4·5.	Naga Hills.
7.	—— SILVATICA, n. sp., × 2·5.	Dafla Hills.
8.	—— RAMRIENSIS, Blanford MS., × 2·5.	Ramri Island.
9.	MACROCHLAMYS? SYLHETENSIS, n. sp., × 2·5.	Sylhet.
10, 10 *a*.	CRYPTAUSTENIA BENSONI, Pfr., var. × 2·5.	Rajmahal.
11, 11 *a*.	—— OVATA, H. Blf., × 2·5.	Darjiling.
12.	DURGELLA EDEANA, n. sp., × 4·5.	Cachar.

EUAUSTENIA. MACROCHLAMYS, CRYPTAUSTENIA AND DURGELLA.

H. H. Godwin Austen del. The Watford Engraving Co., Sculp

PLATE CXXIV.

[Part XI.—*March* 1910.]

Fig. 1.	EUAUSTENIA CASSIDA, Hutton, × 2·5.	Simla.
2.	—— CASSIDA, var. STOLICZKANUS, Nevill.	Naini Tal.
3.	—— SCUTELLA, Bs., part of genitalia, × 4·5.	Chamba.
3 *a*.	—— ——, male organ, × 8.	Ditto.
3 *b*.	—— ——, do. from other side, × 8.	Ditto.
3 *c*.	—— ——, jaw, × 12.	Ditto.
4.	—— ——, genitalia, × 4·5.	Murree.
4 *a*.	—— ——, spermatophore.	Ditto.
4 *b*.	—— ——, (*a*) base of capsule, × 21.	Ditto.
4 *c*.	—— ——, (*b*) base of flume, × 21.	Ditto.
4 *d*.	—— ——, jaw, × 12.	Ditto.
5.	CRYPTAUSTENIA BENSONI, Pfr., animal, view of right side, × 4·5.	Rajmahal.
5 *a*.	—— ——, fore part of body viewed from above, × 4·5.	Ditto.
5 *b*.	—— ——, genitalia, × 12.	Ditto.

PLATE CXXIV.

EUAUSTENIA AND CRYPTAUSTENIA

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXXV.

[Part XI.—*March* 1910.]

Fig. 1, 1 *a*.	CRYPTAUSTENIA SILCHARENSIS, G.-A., × 2·5.	Cachar.
2, 2 *a*.	—— RARHIENSIS, n. sp., × 2·5.	Sikhim.
3, 3 *a*.	—— OVUM, n. sp., × 2·5.	Cachar.
4, 4 *a*.	—— HELVA, n. sp., × 2·5.	South Sylhet Hills.
5, 5 *a*.	—— NONGSINGRIENSIS, n. sp., × 2·5.	N.-West Khasi.
6, 6 *a*.	MACROCHLAMYS BEATA, G.-A., × 2·5.	Dafla Hills.
6 *b*.	Animal viewed from right side, right shell-lobe, &c., × 4·5.	
6 *c*.	Animal viewed from left side, left shell-lobe and foot, × 4·5.	

MACROCHLAMYS AND CRYPTAUSTENIA

H. H. Godwin-Austen, del.

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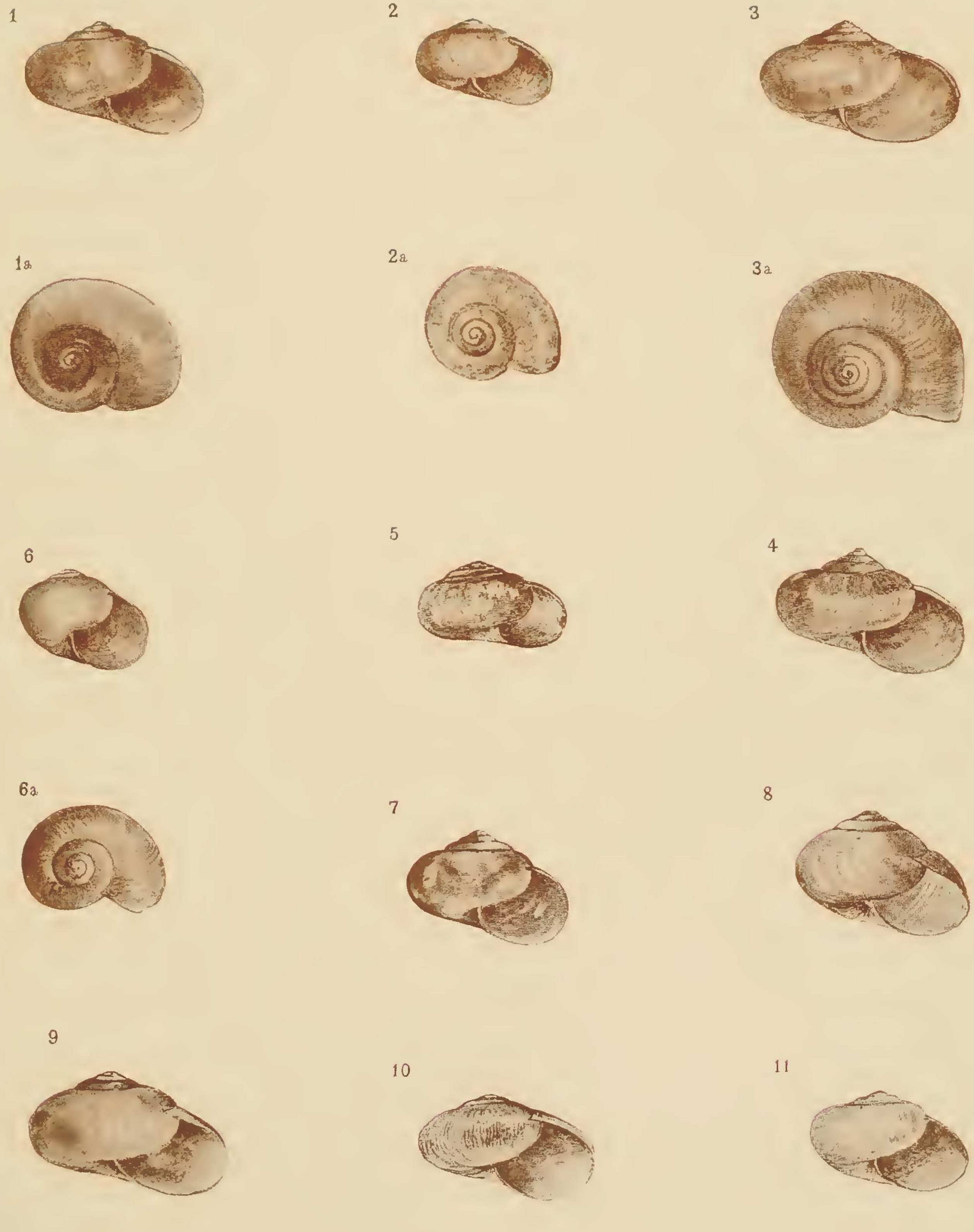
PLATE CXXVI.

[Part XI.—*March* 1910.]

Fig. 1, 1 *a*.	Macrochlamys scyphus, n. sp., × 2·5.	Teria Ghat.
2, 2 *a*.	—— saltus, n. sp., × 2·5.	Moyong, N.W. Khasi.
3, 3 *a*.	—— lahupaensis, n. sp., × 2·5.	N.E. Munipur.
4.	—— subangulata, n. sp., × 2·5.	Burrail Range, Naga.
5.	—— japvoensis, n. sp., × 2·5.	Japvo Peak, Naga Hills.
6, 6 *a*.	—— sphærica, n. sp., × 2·5.	N.W. Khasi.
7.	—— nemothaensis, n. sp., × 2·5.	Cachar.
8.	Macrochlamys? munipurensis, n. sp., × 2·5.	Munipur.
9.	Macrochlamys bilineata, Godwin-Austen, × 2·5.	Dafla Hills.
10.	Macrochlamys? striata, n. sp., × 2·5.	Cachar.
11.	Macrochlamys evidens, n. sp., × 2·5.	Darjiling.



CRYPTAUSTENIA AND MACROCHLAMYS.

H. H. Godwin-Austen, del.

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PLATE CXXVII.

[Part XI.—*March* 1910.]

EURYCHLAMYS TODARUM, W. & H. Blf. Travancore.

Fig. 1. Shell, × 2·4.

1 *a*. Animal, shell removed, seen from right side and above, to show the mantle-zone and shell-lobes, × 4·5.

1 *b*. Ditto, viewed from the left side, × 4·5.

1 *c*. Part of the genitalia, × 8.

1 *d*. Ditto, the same parts, seen from the other side, × 8.

Fig. 2. EURYCHLAMYS BLANFORDI, n. sp. Baroda.

LEPTODONTARION TAVOYENSIS, n. sp. Tavoy, Tenasserim.

Fig. 3. Animal viewed from the right side, × 4.

3 *a*. Ditto, left side, × 4.

3 *b*. Extremity of foot, sole of, and mucous gland, × 8.

3 *c*. Portion of the genitalia, × 12.

3 *d*. Jaw, × 12.

3 *e*. A few teeth of the radula, very much enlarged. Five separate (on right side of plate) from near the margin, very much enlarged.

am.or, amatorial organ; *br*, wall of branchial sac; *cæ*, cæcum; *e*, eye tentacle, position of; *h*, heart; *gen.ap*, genital aperture; *l.s.l*, left shell-lobe; *or*, oviduct; *r.m.p*, retractor muscle penis; *r.s.l*, right shell-lobe; *v.s*, visceral sac; *v.d*, vas deferens.

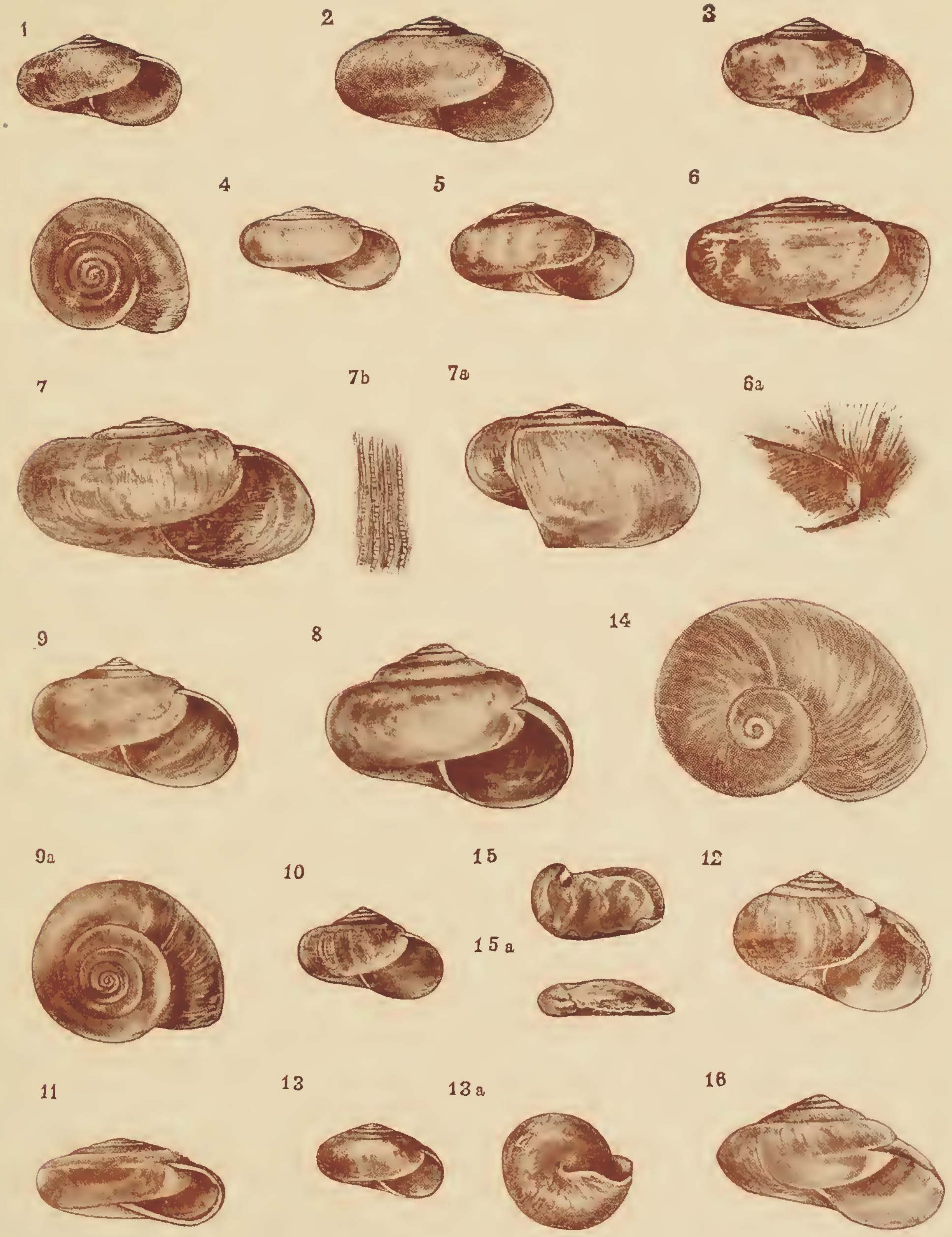
EURYCHLAMYS AND LEPTODONTARION.

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXXVIII.

[Part XI.—*March* 1910.]

Fig. 1, 1 *a*.	Macrochlamys rakaensis, G.-A., × 2·5.	Darjiling.
2.	—— chaos, W. Blanford, × 2·5.	Burma.
3.	—— sacrata, n. sp., × 2·5.	Parasnath.
4.	—— extraria, n. sp., × 2·5.	Munipur.
5.	—— terminus, Godwin-Austen, × 2·5.	East Assam.
6, 6 *a*.	—— stephus, Bs. Young, × 8.	Andamans.
7, 7 *a*, 7 *b*.	—— superflua, W. Blanford, × 2·5.	Sikhim.
8.	—— kumahensis, Theobald & Stoliczka, × 1·5.	Arakan.
9, 9 *a*.	—— radia, n. sp., × 2·5.	Murree.
10.	—— glauca, Bs., × 2·5.	Bhim Tal.
11.	—— hyalinoidea, n. sp., × 4·5.	Punjab.
12.	—— kuluensis, Blf., × 2·5.	Kulu.
13, 13 *a*.	—— uda, Godwin-Austen, × 2·5.	Burrail Range.
14.	Cryptaustenia heteroconcha, W. Blanford, × 2·5.	North Bengal.
15, 15 *a*.	Austenia annandalei, n. sp., nat. size.	North Bengal.
16.	Sakiella merguiensis, n. sp., × 2·5.	Mergui.



MACROCHLAMYS, CRYPTAUSTENIA, GIRASIA AND SAKIELLA.

H. H. Godwin-Austen, del.

The Watford Engraving Co. Sculp.

PLATE CXXIX.

[Part XI.—*March* 1910.]

SAKIELLA MERGUIENSIS, n. sp. Mergui.

Fig. 1. Extremity of foot and mantle-zone, × 4·5.
1 *a*. Mantle-zone and part near rectum showing the shell-lobes, × 4·5.
1 *b*. Genitalia (part of), enlarged.
1 *c*. Jaw, × 24.
1 *d*. Central, admedian and lateral teeth of the radula, × 368.

DURGELLA EDEANA, n. sp. Cachar.

Fig. 2. Jaw, × 30.
2 *a*. Some teeth of the radula, × 368.

SARIKA THEODORI, Phil. Mergui.

Fig. 3. Extremity of the foot, × 2·5.
3 *a*. Genitalia, part of, × 2·5.
3 *b*. Jaw, × 30.
3 *c*. Central, admedian and lateral teeth of the radula, × 368.

MACROCHLAMYS SACRATA, n. sp. Parasnath.

Fig. 4. Part of the amatorial organ.

MACROCHLAMYS GLAUCA, Bs. Kumaon.

Fig. 5. Some teeth of the radula, × 368.
5 *a*. Portion of the genitalia, × 24.

MACROCHLAMYS LUBRICATA, n. sp. Cachar.

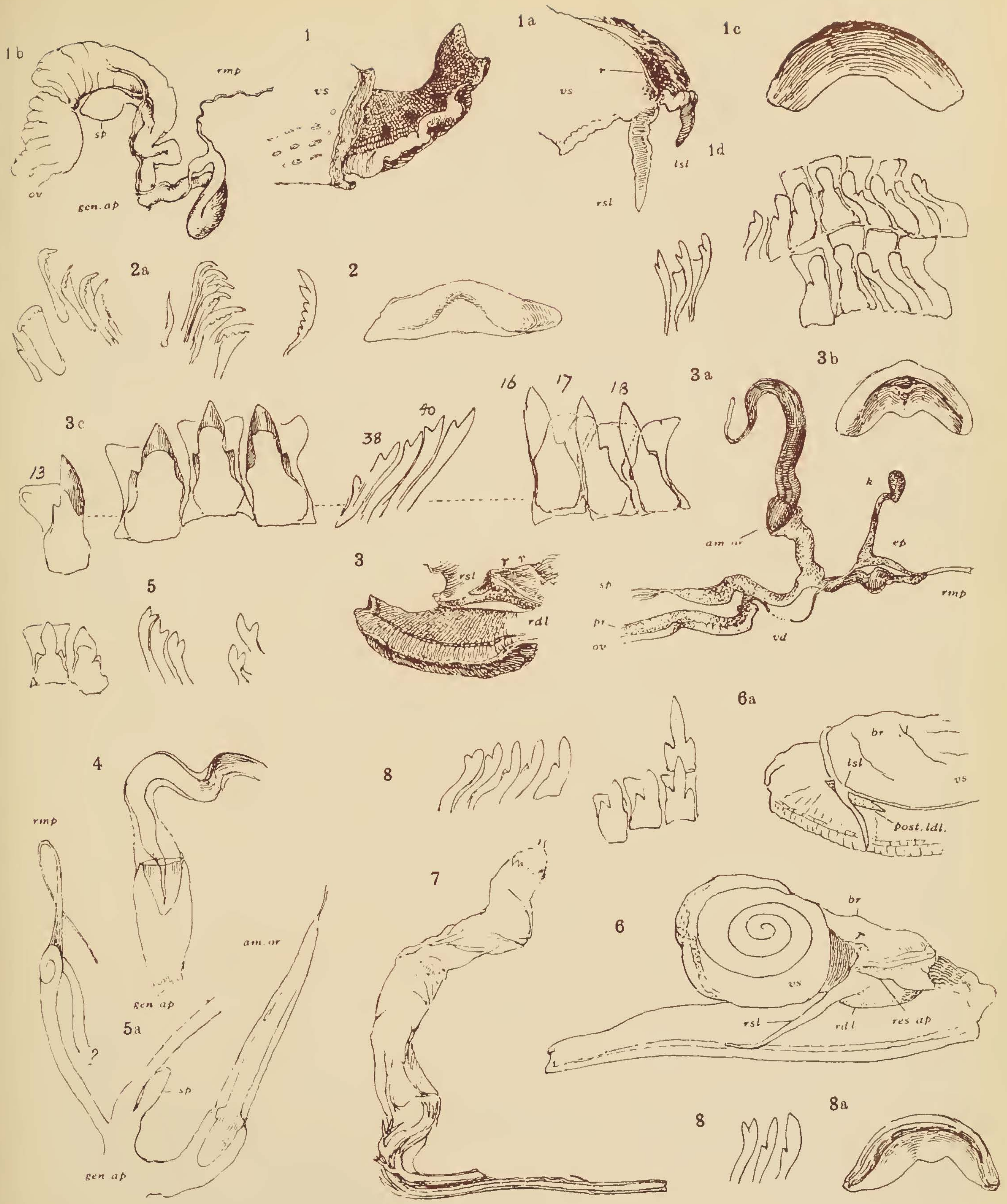
Fig. 6. Animal viewed from the right side, × 4·5.
6 *a*. Ditto, fore part from the left side, × 4·5.

MACROCHLAMYS KULUENSIS, Blf. Kulu.

Fig. 7. Portion of a spermatophore, × 12.

MACROCHLAMYS SUFFLAVA, n. sp.

Fig. 8. Teeth of the radula at different parts of the row, × 368. Naga Hills.
8 *a*. Jaw, × 30. North Cachar.



SAKIELLA, SARIKA, DURGELLA AND MACROCHLAMYS.

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXXX.

[Part XI.—*March* 1910.]

AUSTENIA ANNANDALEI, n. sp. North Bengal.

Fig. 1. Animal viewed from the right side, × about 1·5.

1 *a*. Jaw, × 4·8.

1 *b*. Teeth of the radula in different parts of the row, × 295.

1 *c*. A portion of sheath of the penis, showing position of the spermatophore passing down it, × 6.

1 *d*. A spermatophore removed from the spermatheca, × 4·5.

AUSTENIA RESPLENDENS, G. Nevill. North Burma.

Fig 2. Animal viewed from the right side, natural size.

2 *a*. Ditto, the dorsal side, natural size.

2 *b*. Part of the genitalia, showing the spermatheca containing spermatophores and bent on itself in consequence, the oviduct, free oviduct, and vas deferens, × 3·5.

2 *c*. The penis, × 3·5.

2 *d*. The amatorial organ, × 3·5.

2 *e*. A spermatophore taken out of the spermatheca.

2 *f*. Coil of the visceral sac, natural size.

CRYPTAUSTENIA HETEROCONCHA, H. F. Blanford. North Bengal.

Fig. 3. Animal and shell as seen from the right side, × 2·5.

3 *a*. The genitalia, × 3·5.

AUSTENIA ROTUNDA, n. sp. Cachar.

Fig. 4. Animal viewed from the right side, natural size.

4 *a*. Ditto, the left side, natural size.

4 *b*. Shell of a larger specimen, dorsal view, natural size.

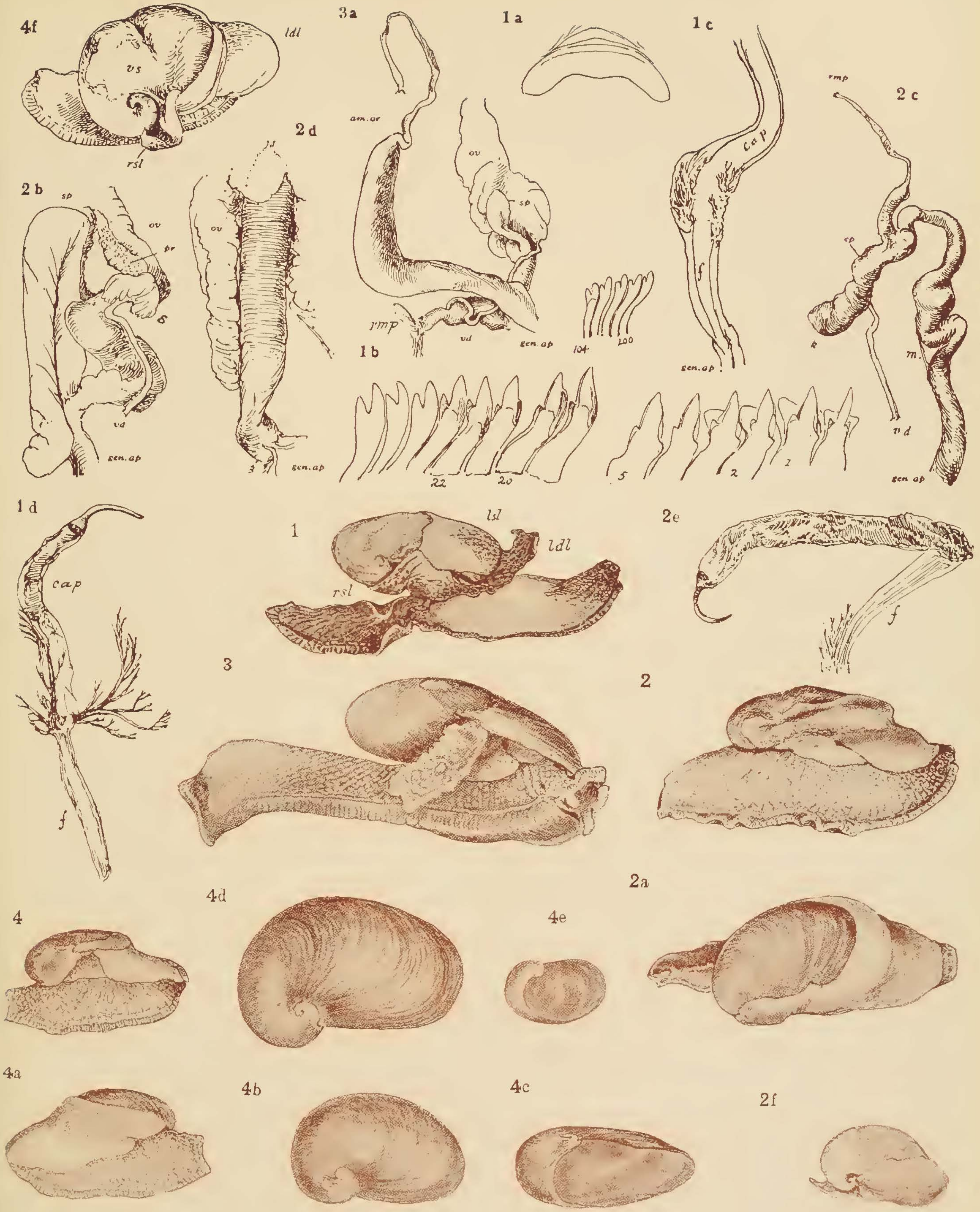
4 *c*. Ditto, front view, natural size.

4 *d*. Shell removed from animal, × 2·5.

4 *e*. Ditto, underside, natural size.

Compare with figure of A. BUTLERI, Pl. XC. fig. 5, also natural size.

4 *f*. The visceral sac with shell removed, showing the coil of the visceral sac, × 2.



AUSTENIA AND CRYPTAUSTENIA.

H. H. Godwin-Austen, del. The Watford Engraving Co., Sculp.

PLATE CXXXI.

[Part XI.—*March* 1910.]

Fig. 1, 1 *a*.	EUAUSTENIA STOLICZKANA, Nevill, × 2·5.	N.W. Himalaya.
2, 2 *a*.	DURGELLA ? ERRATICA, G.-A., × 4·5.	Pegu.
3.	MACROCHLAMYS INDICA, var., × 2·5.	Cachar.
4.	—— RENITENS, Morelet, large var., × 2·5.	Mauritius.
5.	—— (?) DIKRANGENSIS, n. sp., × 2·5.	Dafla Hills.
6.	—— MASONI, n. sp., × 2·5.	Saharanpur.
7.	—— TERMINUS, G.-A., × 2·5.	Brahmakund.
8.	—— TERMINALIS, n. sp., × 2·5.	Lhota Naga Hills.
9, 9 *a*.	PSEUDOKALIELLA ORNATULA, n. sp., × 2·5.	Patkai Range.
9 *b*.	—— ——, portion near the keel, showing flanges on upper margin of keel.	
10, 10 *a*.	MACROCHLAMYS UDA, G.-A., small var., × 4·5.	Lahupa Naga Hills.
11.	—— ANGIGYRATA, n. sp., × 2·5.	Cachar.
12.	PSEUDOKALIELLA NEVILLI, G.-A., hairs near keel.	Sikhim.

PLATE CXXXI.

EUAUSTENIA, MACROCHLAMYS, DURGELLA &c.

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PLATE CXXXII.

[Part XI.—*March* 1910.]

Fig. 1.	Eupisoma miccyla, Benson, × 24.	Ceylon.
1 *a*, 1 *b*.	—— ——, another specimen, × 24.	Do.
1 *c*.	—— ——, some teeth of the radula.	
1 *d*.	—— ——, jaw, × 368.	Do.
2.	—— ——, sp., × 24.	Do.
3.	—— longstaffi, n. sp., × 12.	Do.
3 *b*.	—— ——, some teeth of the radula, × 1,100.	Do.
4.	—— cacharica, n. sp., × 24.	Cachar.
5.	Macrochlamys striaticostata, n. sp., × 4·5.	Cachar.
6.	—— glauca, Bs., viewed from the right side, × 4·5.	N.W. Himalaya.
7	—— ——, viewed from the left side, × 4·5.	Bhim Tal.
8.	—— angigyrata, n. sp., the mantle-zone, × 12.	Cachar.
9, 9 *a*.	—— indica, var., shell and dorsal lobes seen from right and left side of animal, × 4·5.	Cachar.
9 *b*.	—— ——, genitalia, × 8.	
9 *c*.	—— ——, genitalia, part of another specimen, × 4·5.	
9 *d*.	—— ——, the male organ of same seen from two opposite sides, × 8.	

PLATE CXXXII.

MACROCHLAMYS AND PUPISOMA.

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ALYCÆUS.

H. H Godwin-Austen Del

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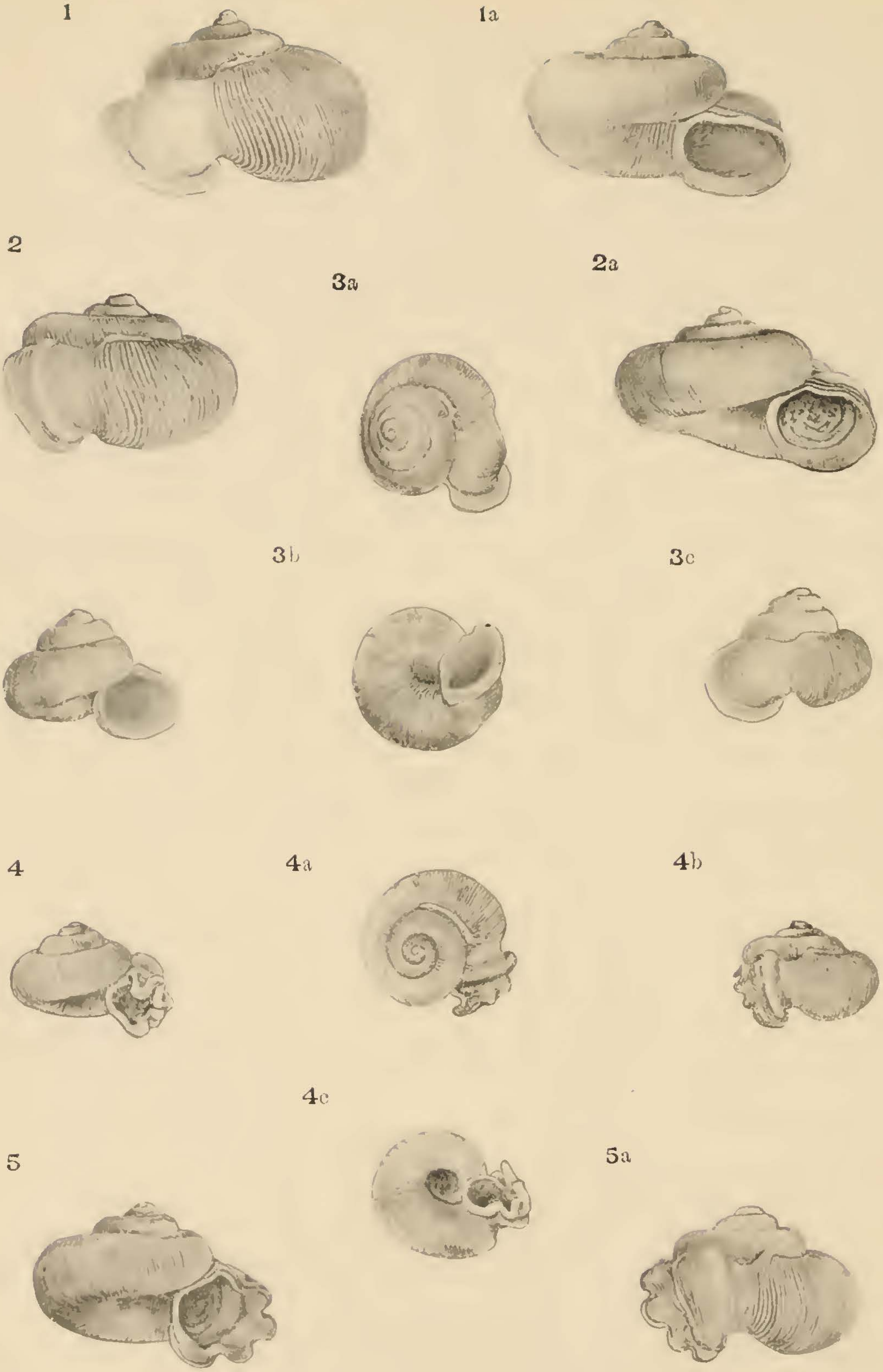
PLATE CXXXIII.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*, 1 *b*, 1 *c*.	Alycæus crenulatus, Bs., × 8.	Western Bhutan.
2, 2 *a*, 2 *b*, 2 *c*.	— — stylifer, Bs., × 8 & 4·5.	Ditto.
3, 3 *a*, 3 *b*, 3 *c*.	— — plectocheilus, Bs., large var., × 8.	Ditto.



ALYCÆUS.

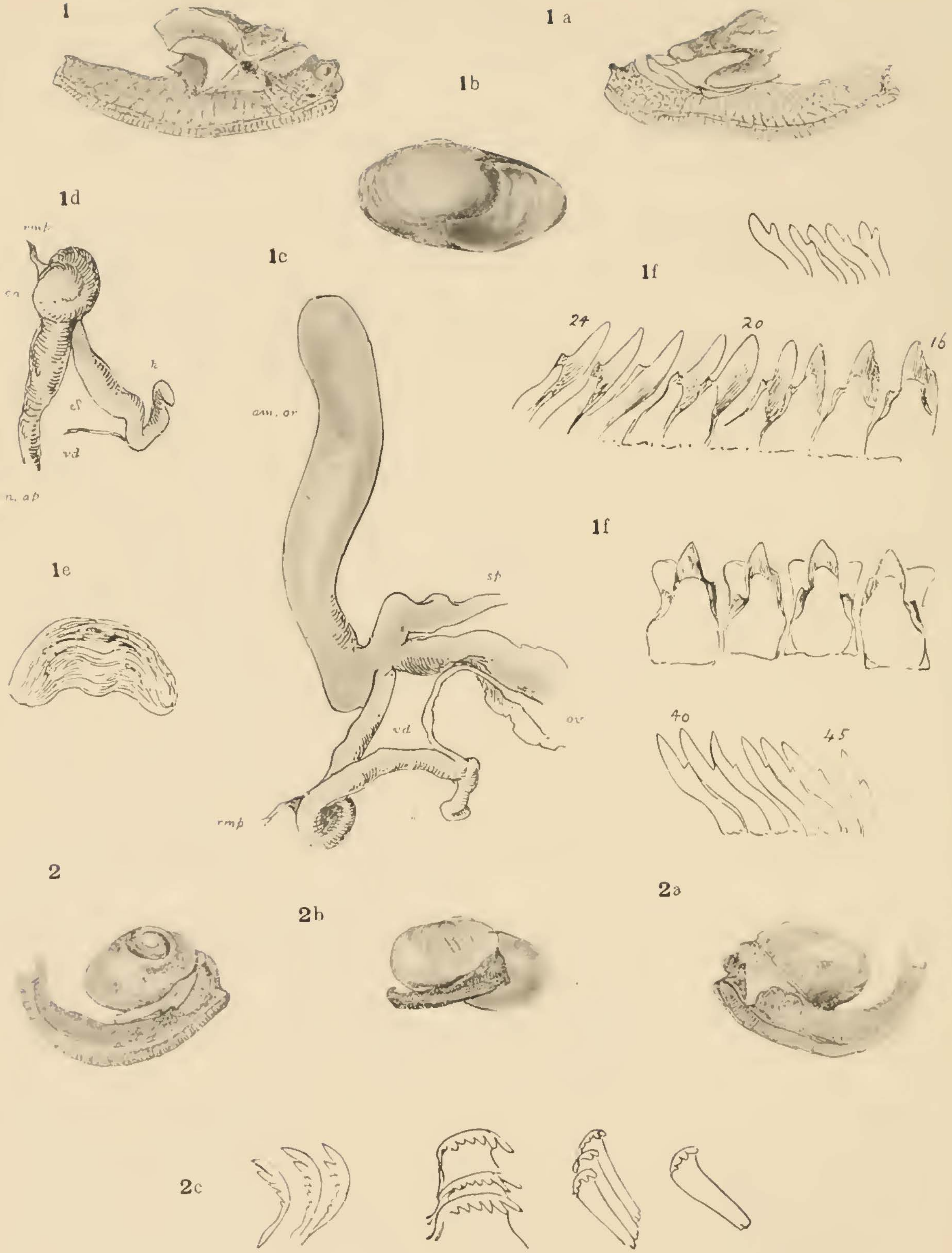
H. H. Godwin-Austen, Del.

Watford Engraving Co. Sculp.

PLATE CXXXIV.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	ALYCÆUS PHYSIS, Bs., × 4·5.	Western Bhutan.
2, 2 *a*.	—— RECHILAENSIS, n. sp., × 8.	Ditto.
3, 3 *a*, 3 *b*, 3 *c*.	—— DALINGENSIS, n. sp., × 8.	Ditto.
4, 4 *a*, 4 *b*, 4 *c*.	—— PLECTOCHEILUS, Bs., typical sp., × 8.	Darjiling.
5, 5 *a*.	—— DIGITATUS, H. Blf., × 8.	Western Bhutan.



PARVATELLA & DURGELLA.

H. H. Godwin-Austen. Del.

Watford Engraving Co. Sculp

PLATE CXXXV.

[Part XII.—*December* 1914.]

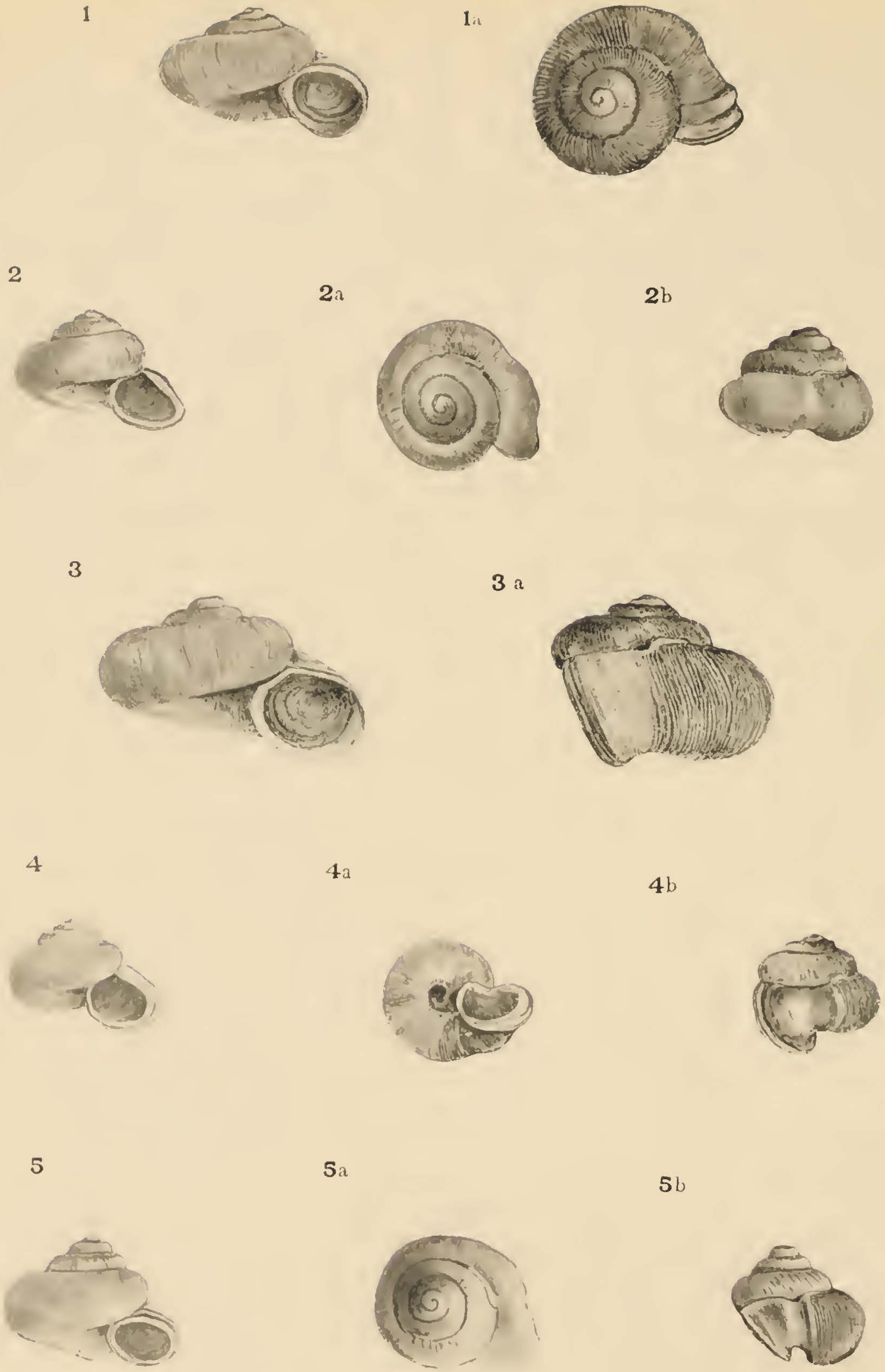
PARVATELLA SOGDIANA, von Martens. Samarkand.

Fig. 1. Animal seen from right side, × 1·5.
1 *a*. Ditto, left side, × 1·5.
1 *b*. Shell, × 1·5.
1 *c*. Part of generative organs, × 4·5.
1 *d*. Male organ, × 1·5.
1 *e*. Jaw, × 12.
1 *f*. Teeth of the radula at different parts of the row, × 368.

DURGELLA NAHARANIENSIS, G.-A. Assam.

Fig. 2. Animal, right side of, × 4·5.
2 *a*. Ditto, left side, × 4·5.
2 *b*. Shell, front view with animal in hardened state, × 4·5.
2 *c*. Some teeth of the radula, much enlarged

PLATE CXXXVI.



ALYCÆUS.

H. H. Godwin-Austen, Del

Watford Engraving Co. Sculp

PLATE CXXXVI.

[Part XII.—*December* 1914.]

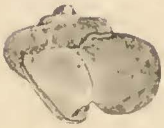
Fig. 1, 1 *a*.	ALYCÆUS STRANGULATUS, T. Hutton, × 8.		Mussoorie.
2, 2 *a*, 2 *b*.	—— LENTICULUS, G.-A. Type.	× 8.	Darjiling.
3, 3 *a*.	—— MONTANUS, Nevill. Type.	× 8.	Sikkim.
4, 4 *a*, 4 *b*.	—— LENTICULUS, G.-A., × 8.		Sikkim.
5, 5 *a*, 5 *b*.	—— LECTUS, G.-A. Type.	× 8.	Darjiling.

1

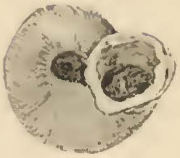
1a

2

2a

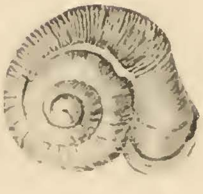


2b



3

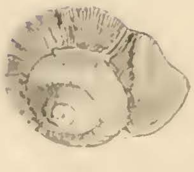
3 a



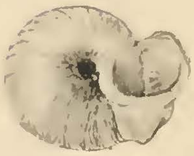
3b

4

4a



4b



5

5a

H. H. Godwin-Austen. Del

ALYCAEUS.

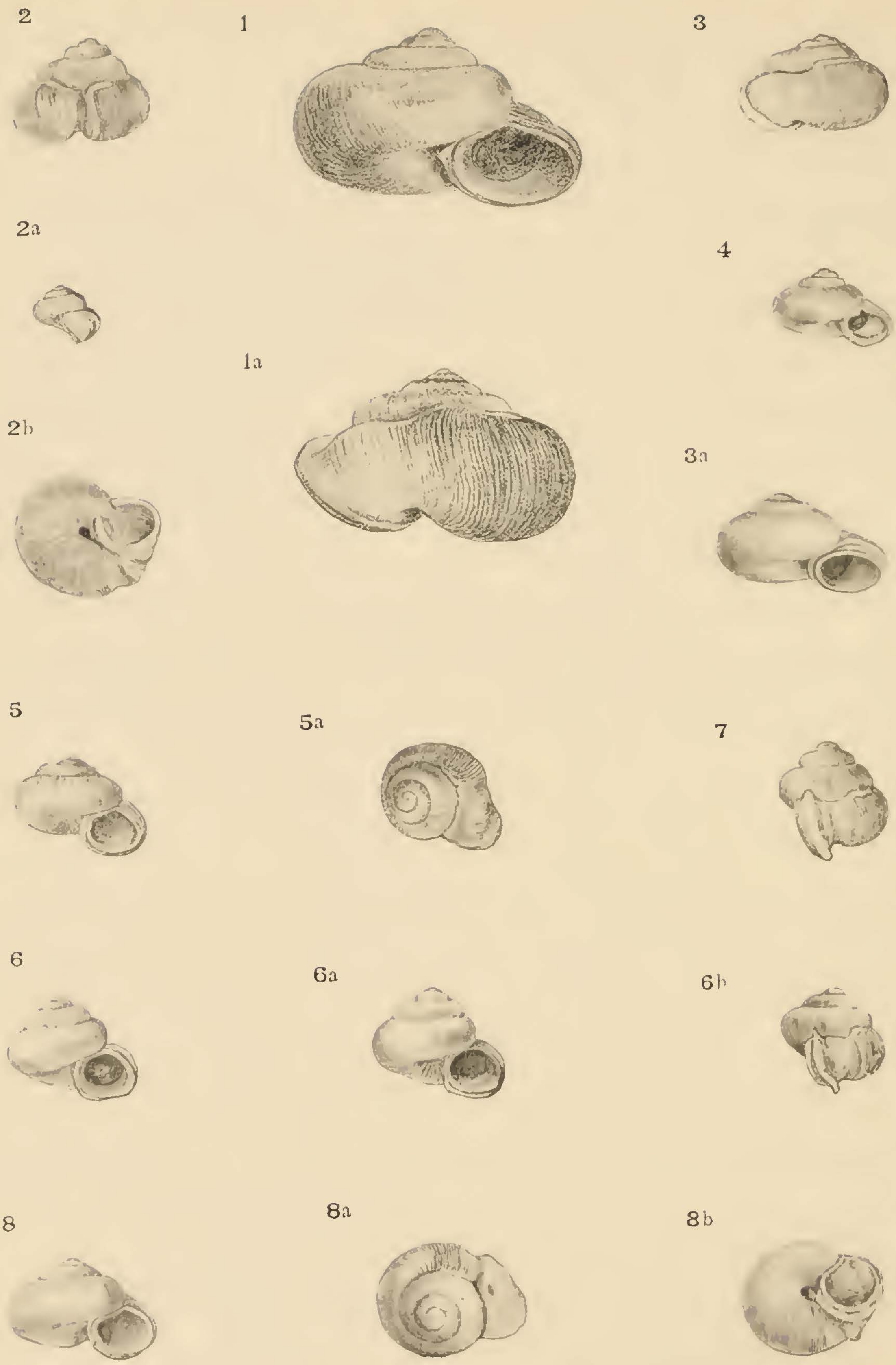
Watford Engraving Co. Sculp.

PLATE CXXXVII.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	ALYCÆUS LOHITENSIS, n. sp., × 4·5.	Lohit Valley, Assam.
2, 2 *a*, 2 *b*.	—— DISTINCTUS, G.-A., × 4·5.	Sadia.
3, 3 *a*, 3 *b*.	—— TANGHALI, n. sp., × 8.	Munipur.
4, 4 *a*, 4 *b*.	—— NOWGONGENSIS, n. sp., × 8.	Assam.
5, 5 *a*.	—— JAINTIACUS, G.-A., var. CRASSUS, × 8.	Nongjinghi, Jaintia Hills.

PLATE CXXXVIII.



ALYCÆUS.

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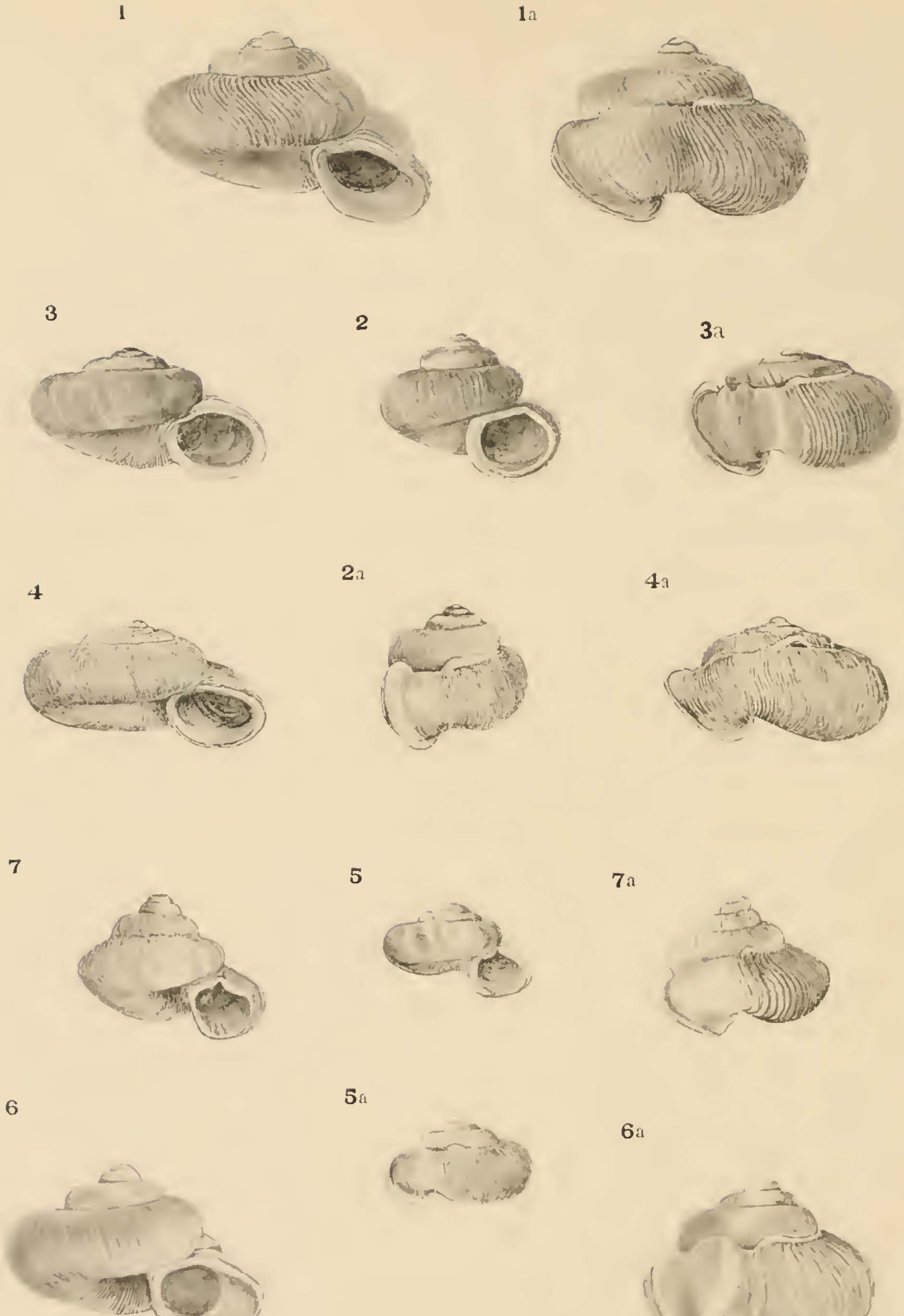
PLATE CXXXVIII.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	ALYCÆUS MAGNUS, G.-A., × 4·5.	Eastern Naga Hills.
2, 2 *a*, 2 *b*.	—— HABIANGENSIS, n. sp., × 8, 2 *b* × 4·5.	West Khasi Hills.
3, 3 *a*.	—— LEVIS, n. sp., × 4·5.	Munipur.
4.	—— THEOBALDI, W. Blf., var. DIYUNGENSIS, × 4·5.	N. Cachar.
5, 5 *a*.	—— NONGTUNGENSIS, n. sp., × 8.	Jaintia Hills.
6, 6 *a*, 6 *b*.	—— CONICUS, G.-A., var. NANUS, G.-A., × 8.	N. Cachar.
7.	Ditto Ditto	Jhiri Valley, Munipur.
8, 8 *a*, 8 *b*.	—— GENEROSUS, n. sp., × 8.	Khasi Hills.



ALYCÆUS.

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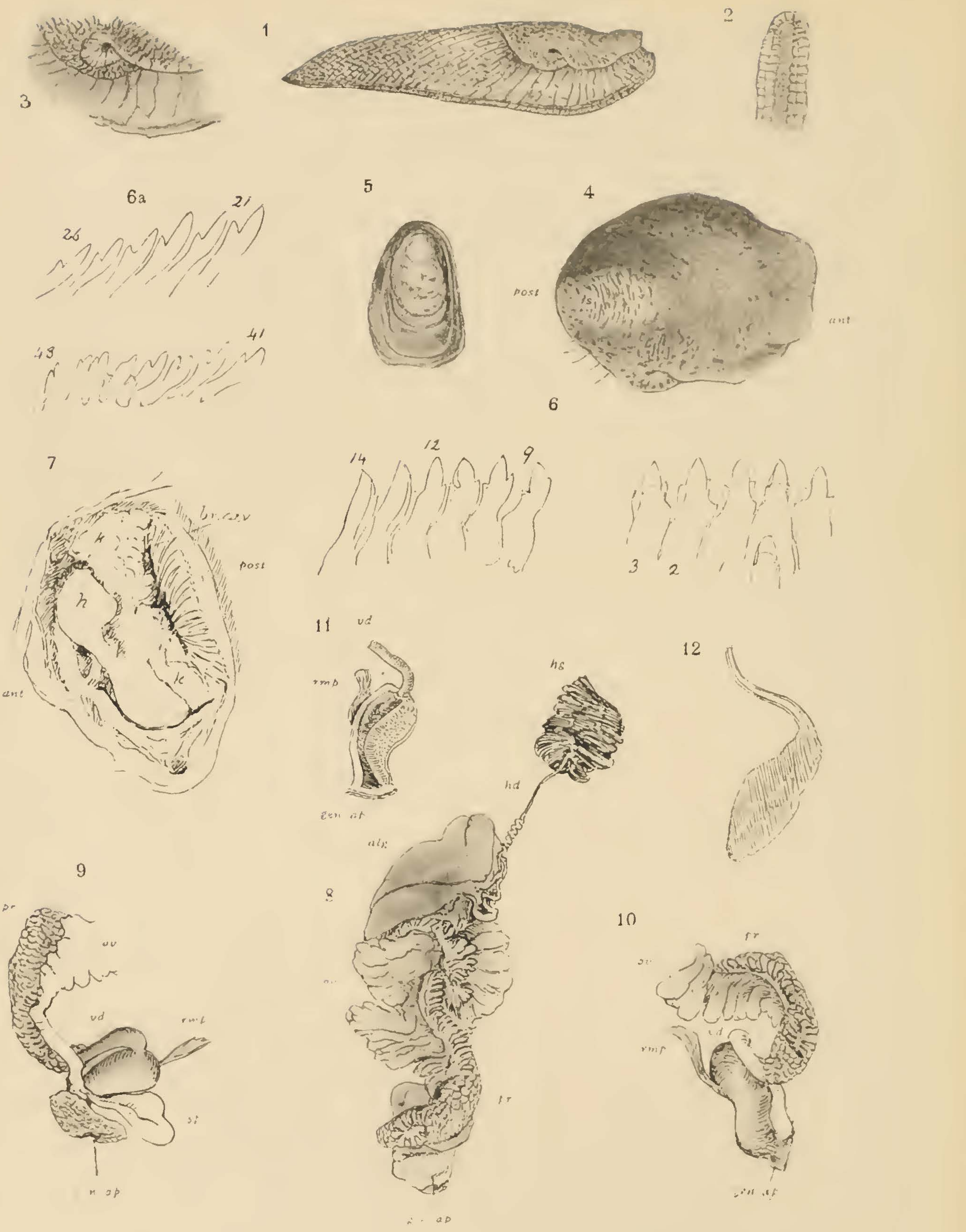
PLATE CXXXIX.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	Alycæus anonymus, G.-A., Blf. MS., × 8.	Pegu.
2, 2 *a*.	—— vestitus, W. Blf. Type. × 8.	Arakan.
3, 3 *a*.	—— bifrons, Theobald, × 8.	Shan Hills.
4, 4 *a*.	—— sandowayensis, n. sp., × 4·5.	Arakan.
5, 5 *a*.	—— politus, W. Blf., × 8.	Ditto.
6, 6 *a*.	—— kengtungensis, n. sp., × 8.	Kengtung, Shan States.
7, 7 *a*.	—— sculptilis, Bs., × 8.	Burma.



KASPIRIA.

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PLATE CXL.

[Part XII.—*December* 1914.]

KASPERIA MAYÆ, n. sp. Kashmir.

Fig. 1. Animal, viewed from the right side, × 1·5.
2. Ditto, sole of foot, anterior end, × 1·5.
3. Ditto, the respiratory aperture, × 2·5.
4. The mantle, (*s.*) position of shell, × 4·5.
5. Shell, upper surface, × 4·5.
6. Teeth of radula, central and median, × 368.
6 *a.* Ditto, marginals, × 368.
7. The heart (*h.*) and kidney (*k.*) and branchial cavity (*br.cav.*), × 4·5.
8. Genitalia, × 4·5. *ant.* anterior side; *post.* posterior side.
9. Ditto, another view, × 4·5.
10. Ditto, ditto, × 4·5.
11. Ditto, penis, longitudinal section through to show internal wall of.
12. Spermatophore, × 12.

hg, hermaphrodite gland; *hd*, the duct; *alg*, albumen gland; *vd*, vas deferens; *sp.* spermatheca; *ov*, ovotestis; *pr*, prostate; *gen.ap*, generative aperture; *r.m.p*, retractor muscle of penis.

ALYCÆUS.

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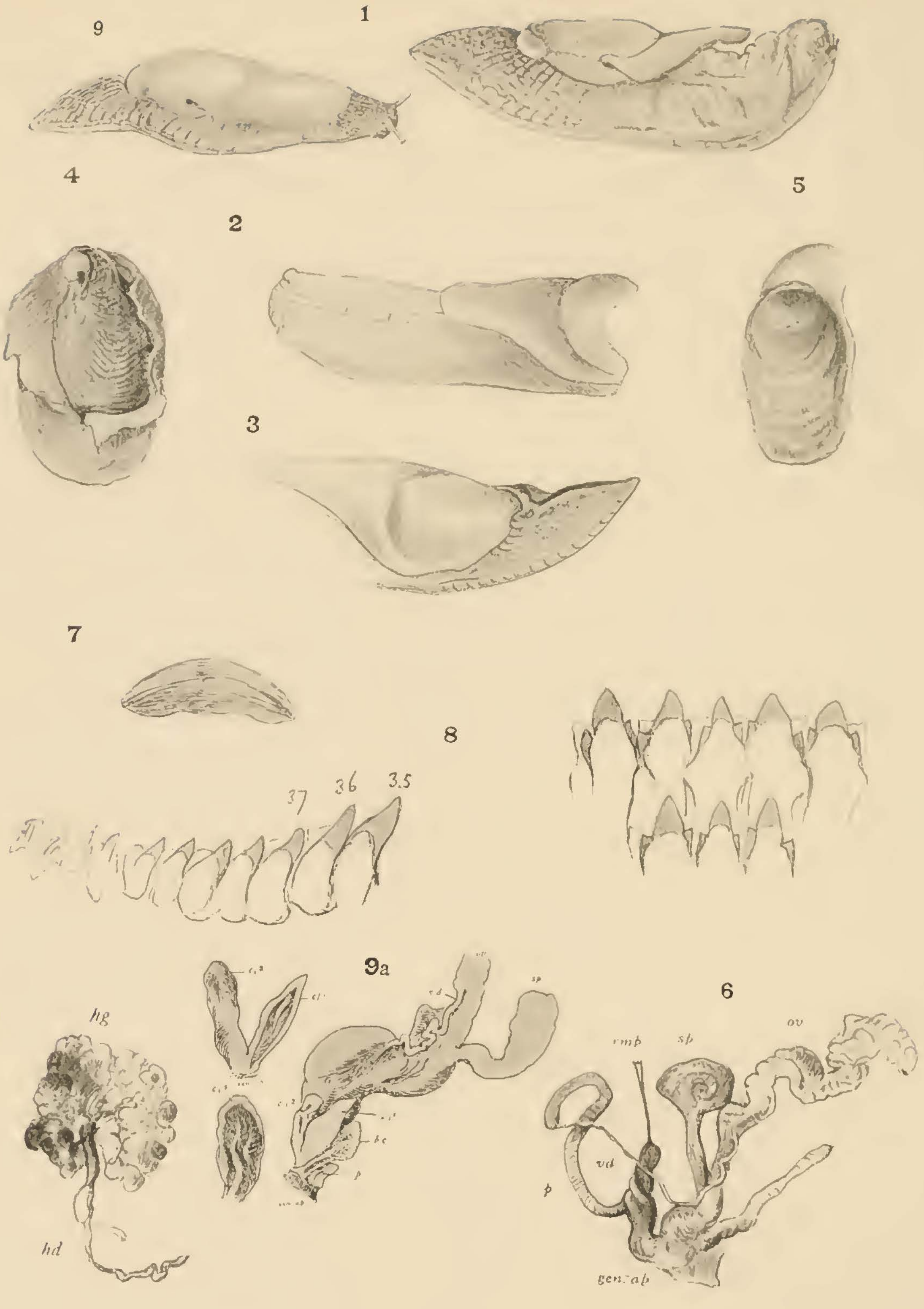
PLATE CXLI.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*, 1 *b*.	ALYCÆUS AKHAENSIS, n. sp., × 8.	Akha Hills, foot of.
2, 2 *a*, 2 *b*.	—— MACGREGORI, n. sp., × 4·5.	Dafla Hills.
3, 3 *a*.	—— LAHUPAENSIS, n. sp., × 8.	Munipur Hills.
4.	—— BAROWLIENSIS, n. sp., × 8.	Akha Hills.
5.	—— POLYGONOMA, W. Blf., × 4·5.	Arakan.
6, 6 *a*.	—— BURROIENSIS, n. sp., × 8.	Dafla Hills.
7, 7 *a*.	—— RUGOSUS, n. sp., × 8.	Ditto.
8.	—— KAMAKIAENSIS, n. sp., × 4·5.	Assam Valley.

PLATE CXLII.



PARMACELLA.

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PLATE CXLII.

[Part XII.—*December* 1914.]

Parmacella kojhakensis, G.-A. West side Kojhak Pass, Afghanistan.

Fig. 1. Animal, right side of, × 2·5.
2. Animal, anterior portion, × 2·5.
3. Ditto, posterior to end of foot, × 2·5.
4. Shell in position, seen from above, with the mantle cut open and turned back, × 4.
5. Shell, underside, × 4.
6. Generative organs, enlarged.
6 *a*. Ditto, portion of, × 4.
7. Jaw, × 12.
8. Teeth of the radula, × 368.

hg. hermaphrodite gland; *hd*, hermaphrodite duct; *r.m.p*, retractor muscle of penis.

Parmacella deshayesi, Moquin-Tandon. Oran, N. Africa.

Fig. 9. Animal from life, nat. size.
9 *a*. Ditto, part of the generative organs, × 4·5. To show the accessory organs.

cl^1, cl^2, clitoris of Simroth; *bc*, bursa copulatrix; *vd*, vas deferens; *sp*, spermatheca; *ov*, oviduct; *p*, the position of penis, removed.

ALYCÆUS.

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PLATE CXLIII.

[Part XII.—*December* 1914.]

[All enlarged, varying in amount.]

Fig. 1, 1 *a*, 1 *b*.	ALYCÆUS PROSECTUS, Bs.	Teria Ghat, Khasi Hills.
2, 2 *a*, 2 *b*.	—— NAGAENSIS, G.-A.	Asalu, N. Cachar.
3, 3 *a*, 3 *b*.	—— JAINTIACUS, G.-A.	Jaintia Hills.
4, 4 *a*, 4 *b*.	—— CONICUS, G.-A.	East of Kopili River.
5, 5 *a*, 5 *b*.	—— DIAGONIUS, G.-A.	Diyung Valley, nr. Asalu.
6, 6 *a*, 6 *b*.	—— PUSILLUS, G.-A.	Jawai, Jaintia Hills.
7, 7 *a*, 7 *b*	— KHASIACUS, G.-A.	Lailangkote, Khasi Hills.
8, 8 *a*, 8 *b*.	—— CRENATUS, G.-A.	Hengdan Pk., N. Cachar Hills.
9, 9 *a*.	—— (DIORYX) URNULA, Bs., var.	Marangsip Pk., Jaintia.
10, 10 *a*.	—— (CYCLORYX) GRAPHICUS, W. Blf., var.	N. Khasi.
11, 11 *a*.	—— (——) MANGUTENSIS, n. sp.	Jawai, Jaintia.

ALYCÆUS.

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PLATE CXLIV.

[Part XII.—*December* 1914.]

[All enlarged, varying in amount.]

Fig. 1 *b*, 1 *c*, 1 *d*.	ALYCÆUS INFLATUS, G.-A.	Naga Hills.
1, 1 *a*.	—— INFLATUS, G.-A., var. Lccality ?	Assam.
2, 2 *a*, 2 *b*.	—— STRIGATUS, G.-A.	Assam.
3, 3 *a*, 3 *b*, 3 *c*.	—— STOLICZKII, G.-A.	Naga Hills.
4, 4 *a*, 4 *b*.	—— GLOBULUS, G.-A.	Munipur, Naga Hills.
5, 5 *a*, 5 *b*.	—— BICRENATUS, G.-A.	Naga Hills.
6, 6 *a*. 6 *b*.	—— SERRATUS, G.-A.	Munipur.
7, 7 *a*.	—— MULTIRUGOSUS, G.-A.	Munipur, Naga Hills.
8. 8 *a*.	—— BURTII, G.-A.	Akha Hills, Assam.
9, 9 *a*.	—— (CYCLORYX) KHUNHOENSIS, n. sp.	Naga Hills.

ALYCÆUS.

H. H. Godwin-Austen. Del.

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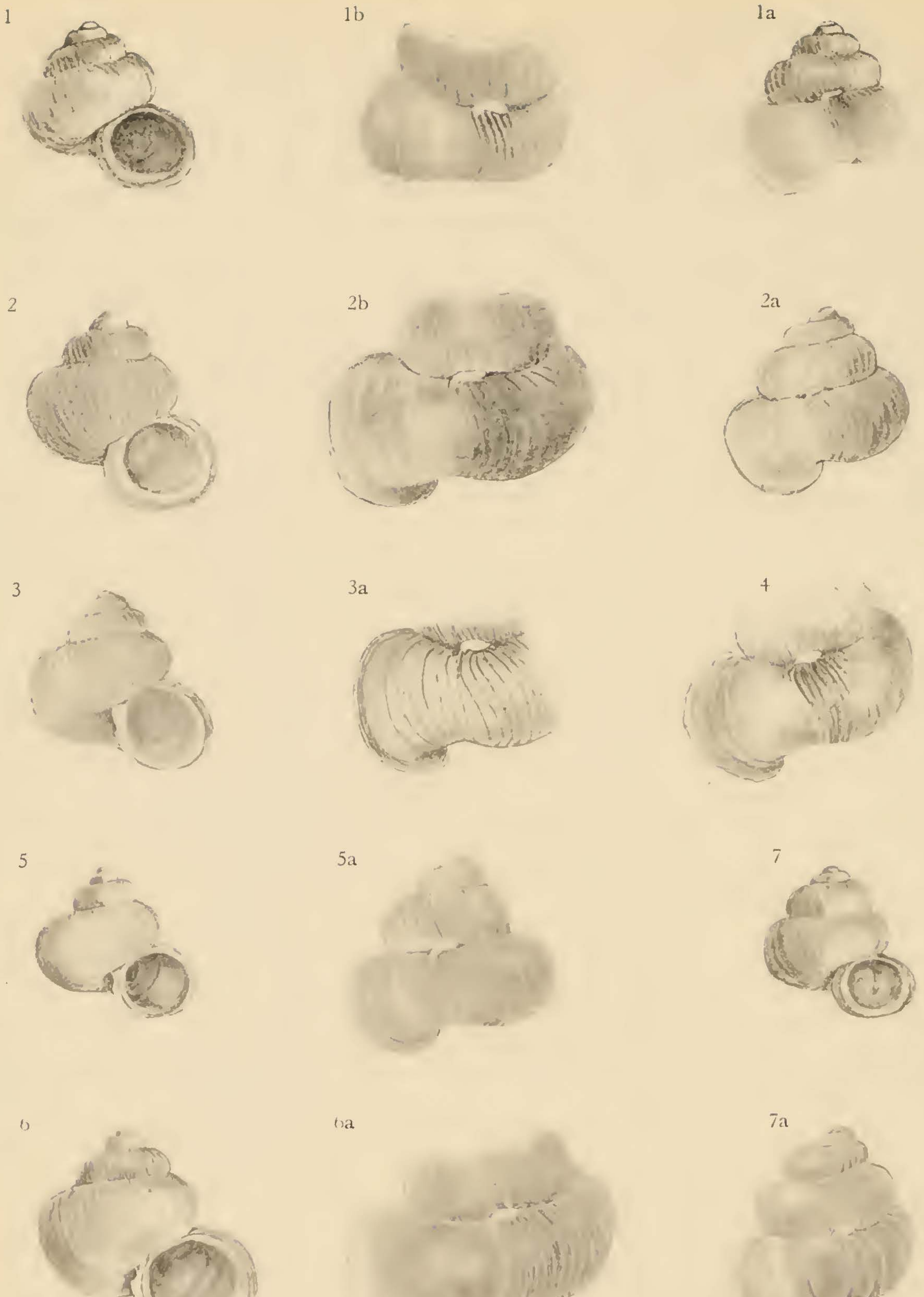
PLATE CXLV.

[Part XII.—*December* 1914.]

[All enlarged, varying in amount.]

Fig. 1, 1 *a*, 1 *b*.	ALYCÆUS CRISPATUS, G.-A.	Eastern Garo Hills.
2, 2 *a*, 2 *b*.	—— ASALUENSIS, n. sp.	Phulong, North Cachar.
3, 3 *a*, 3 *b*.	—— DISTINCTUS, G.-A. (INGRAMI, var.).	Asalu, Cachar.
4, 4 *a*, 4 *b*.	—— THEOBALDI, W. Blf.	Khasi Hills.
5, 5 *a*, 5 *b*.	—— HEBES, Benson.	Teria Ghat, Khasi Hills.
6, 6 *a*, 6 *b*, 6 *c*.	—— SCULPTURUS, G.-A. Type.	N.E. Munipur.
7.	—— CRISPATUS, G.-A.	Eastern Garo Hills.
8, 8 *a*, 8 *b*.	—— NOTATUS, G.-A.	Dafla Hills.
9, 9 *a*.	—— MUTATUS, G.-A.	Ditto.
10.	—— TORUPUTUENSIS, operculum enlarged.	Ditto.
11, 11 *a*, 11 *b*.	—— DAFLAENSIS, G.-A.	Ditto.



ALYCÆUS (CYCLORYX).

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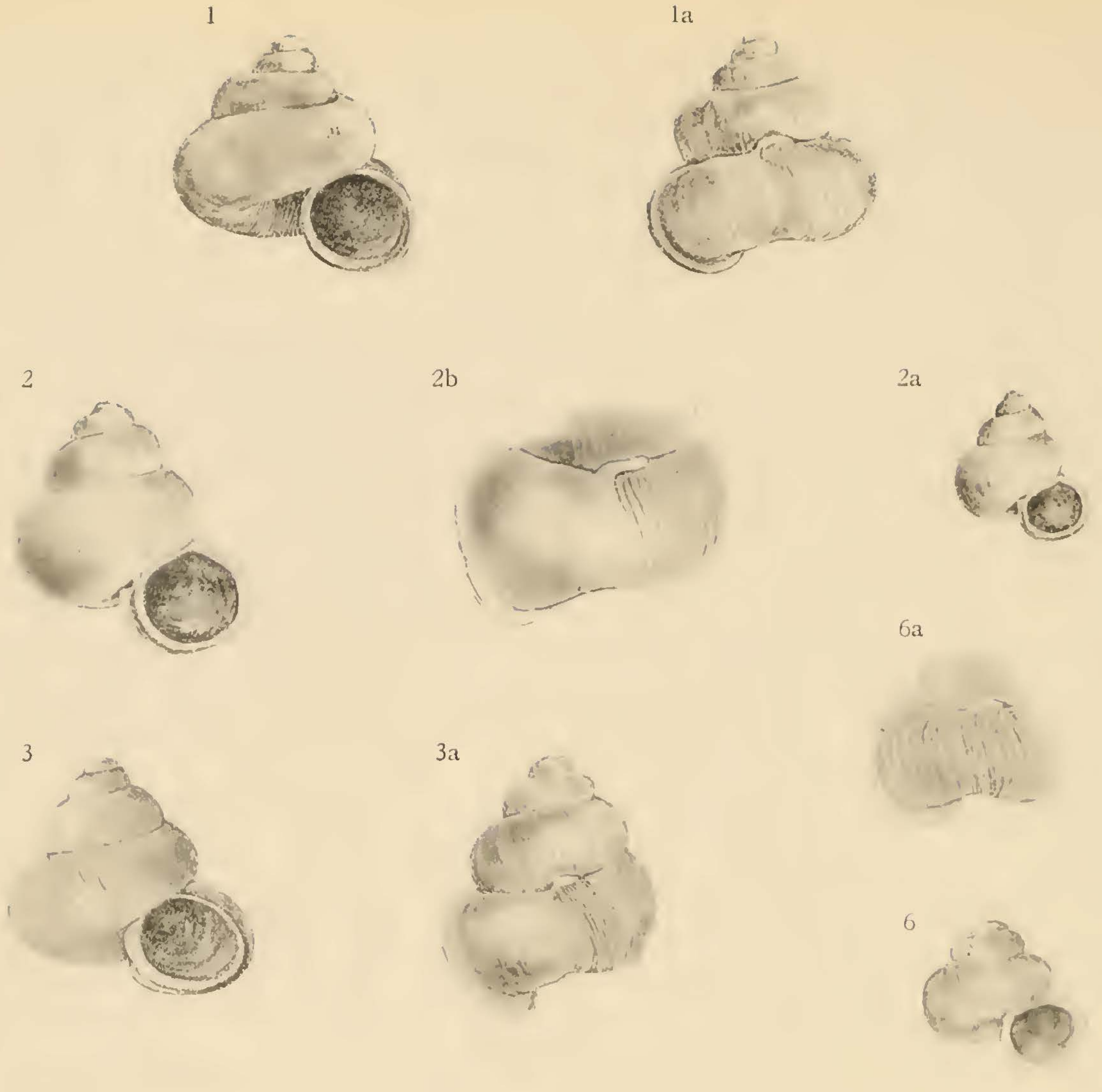
PLATE CXLVI.

[Part XII.—*December* 1914.]

Fig. 1, 1*a*.	Alycæus (Cycloryx) graphicus, W. Blf., ×8.	Arakan.
1 *b*.	Last whorl, showing constriction and sutural tube with the adjacent costulation, × 12.	
2, 2 *a*, 2 *b*.	Alycæus (Cycloryx) graphicus, var., similar enlargement.	Teria Ghat.
3, 3 *a*.	—— (——) thompsoni, n. sp., × 8.	Munipur.
4.	—— (——) graphicus, var. variabilis, last whorl, × 12.	Lhota Naga.
5, 5 *a*.	—— (——) mangutensis, n. sp., × 8 & 12.	Jaintia Hills.
6, 6 *a*.	—— (——) graphicus, W. Blf., var. dihingensis, × 8 & 12.	Dihing Valley, E. Assam.
7, 7 *a*.	—— (——) graphiarius, n. sp., × 8 & 12.	Shan Hills.



ALYCÆUS (CYCLORYX).

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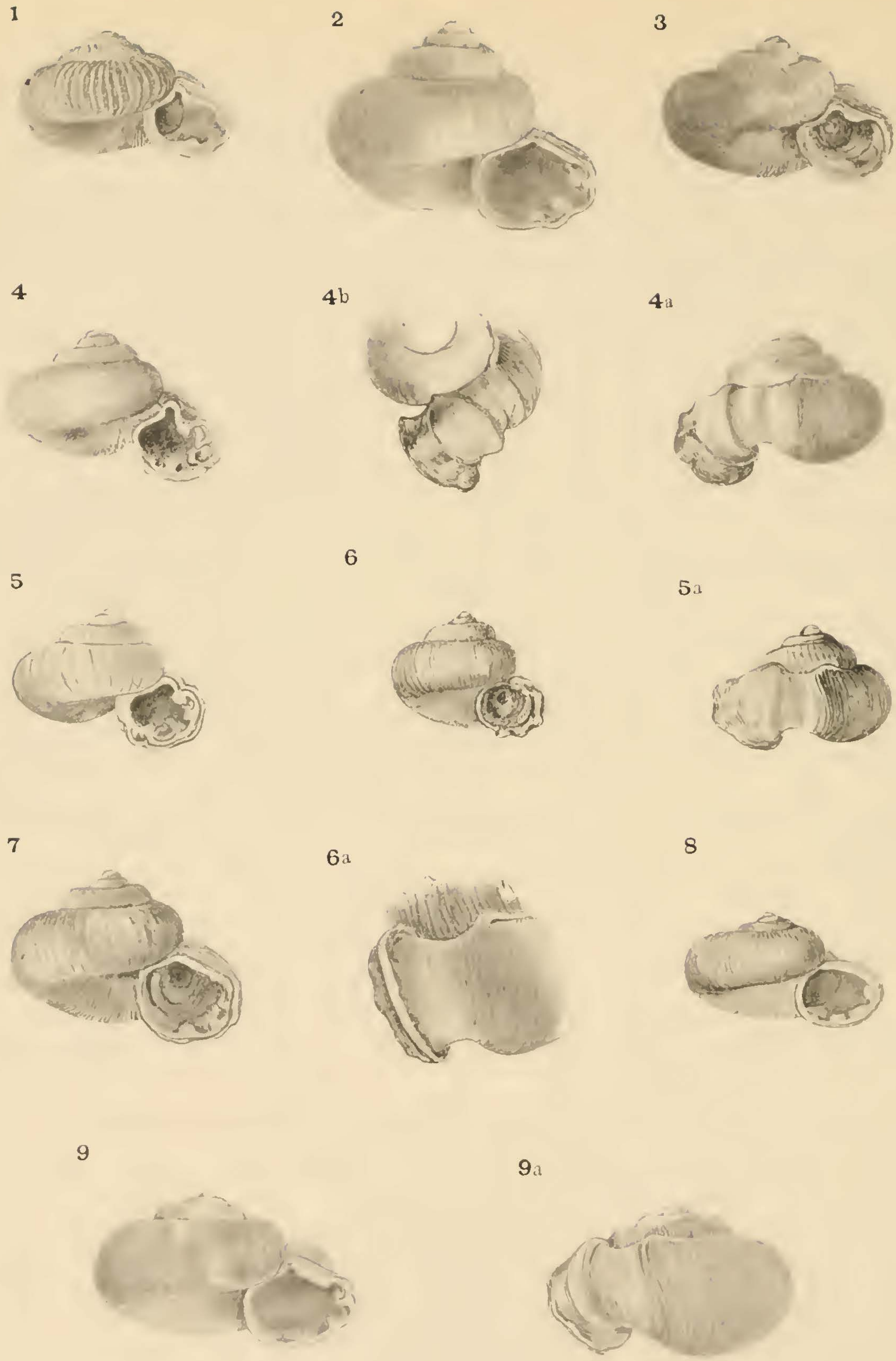
PLATE CXLVII.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	ALYCÆUS (CYCLORYX) BEMBEX, Bs., × 8.	Darjiling.
2.	—— (——) OTIPHORUS, Bs., × 8.	Ditto.
2 *a*.	—— (——) ——, × 45.	Ditto.
2 *b*.	—— (——) ——, × 12.	
3, 3 *a*.	—— (——) SUMMUS, n. sp., × 8.	Rechila Peak, Sikkim.
4, 4 *a*.	—— (——) CONSTRICTUS, Bs., × 8.	Darjiling.
5, 5 *a*.	—— PAUCICOSTATUS, n. sp., × 8 & 12 respectively.	Dafla Hills.
6, 6 *a*.	—— BURRAILENSIS, n. sp., × 8 & 12 respectively.	Naga Hills.
7.	—— MULTICOSTULATUS, n. sp., × 8.	Munipur.
8.	—— KHUNHOENSIS, n. sp., × 8.	Naga Hills.
9.	—— ELEGANS, n. sp., × 8.	Shengorh Peak, Dafla Hills.



ALYCÆUS.

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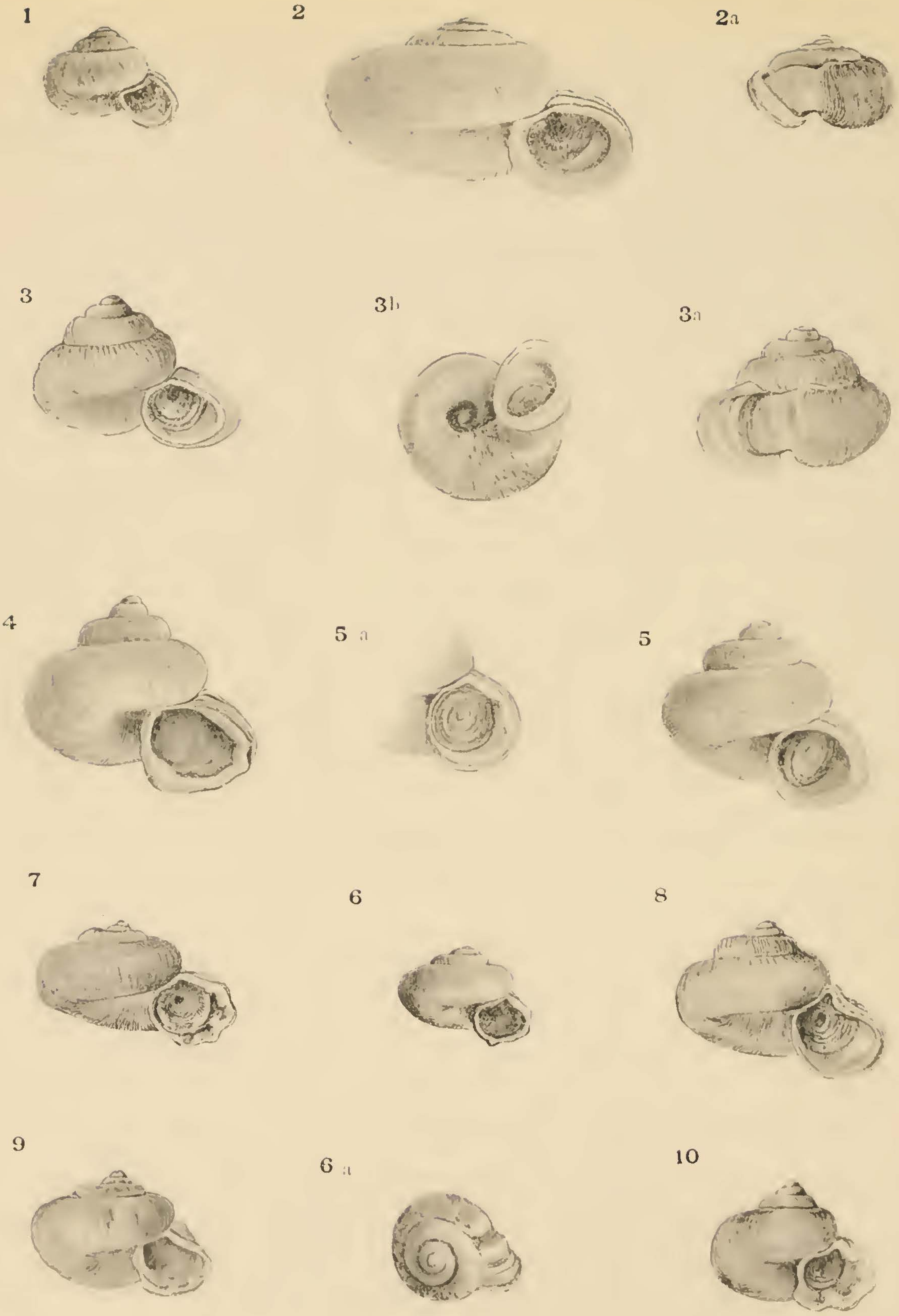
PLATE CXLVIII.

[Part XII.—*December* 1914.]

Fig. 1.	ALYCÆUS MUSPRATTI, n. sp., Beddome MS., × 8.	E. Naga.
2.	—— OGLEI, n. sp., × 8.	E. Assam.
3.	—— BLANFORDI, n. sp., × 8.	Arakan.
4, 4 *a*, 4 *b*.	—— ATARANENSIS, n. sp., × 12.	Tenasserim.
5, 5 *a*.	—— CRISPATUS, G.-A., var. MINIMUS, × 12.	Garo Hills.
6, 6 *a*.	—— DIKRANGENSIS, n. sp., × 4·5 & 8.	Dafla Hills.
7.	—— COMMUTATUS, n. sp., × 12.	Probably Akha.
8.	—— BHUTANENSIS, n. sp., × 4·5.	Ditto.
9, 9 *a*.	—— DAVISI, n. sp., × 4·5.	Shan Hills.



ALYCÆUS.

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PLATE CXLIX.

[Part XII.—*December* 1914.]

Fig. 1.	ALYCÆUS KEZAMAENSIS, n. sp., ×8.	Naga Hills.
2, 2 *a*.	—— EDEI, n. sp., ×8.	Cachar.
3, 3 *a*, 3 *b*.	—— TORUPUTUENSIS, G.-A., Nevill MS., ×8.	Dafla Hills.
4.	—— DISTINCTUS, G.-A., var., ×8.	Cachar.
5, 5 *a*.	—— BEDDOMEI, n. sp., ×8.	Naga Hills.
6, 6 *a*.	—— GEMMA, n. sp., ×8.	Dafla Hills.
7.	—— YETAYENSIS, n. sp., ×4·5.	Ditto.
8.	—— MUNDULUS, n. sp., ×8.	Ditto.
9.	—— ABORENSIS, n. sp., ×1·5.	Abor Hills.
10.	—— VESICA, n. sp., ×1·5.	Ditto.

PARVATELLA, MACROCHLAMYS,
SITTALA AND VALLONIA.

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PLATE CL.

[Part XII.—*December* 1914.]

Parvatella austeniana, Nevill. Sonamurg, Kashmir.

Fig. 1. Animal of small specimen: part of shell removed, showing right shell-lobe and dorsal lobes, &c., × 8.

1 *a*. Ditto Ditto viewed from the left side; foot with visceral sac, × 8.

1 *b*. Edge of mantle with left shell-lobe (*lsl*), × 8.

1 *c*. Penis detached, with large coiled cæcum and retractor muscle, × 8.

1 *d*. The amatorial organ or dart-sac, × 8.

1 *e*. Spermatheca, × 8.

1 *f*. The heart and kidney, × 8.

1 *g*. The spermatheca of small specimen, containing the spermatophore, × 24.

Macrochlamys (Rhadella) kashmirensis, Nevill. Sonamurg, Kashmir.

Fig. 2. Part of the genitalia: penis and amatorial organ, × 24.

2 *a*. The animal: shell removed, showing end of foot, × 4·5.

2 *b*. Jaw, × 58.

Macrochlamys decursus, n. sp. Munipur.

Fig. 3. The right shell-lobe, with right and left dorsal lobes next the respiratory orifices. No. 581 B.M. Coll.

Sitala pealii, n. sp. Cachar.

Fig. 4, 4 *a*. Teeth of the radula, × 1100.

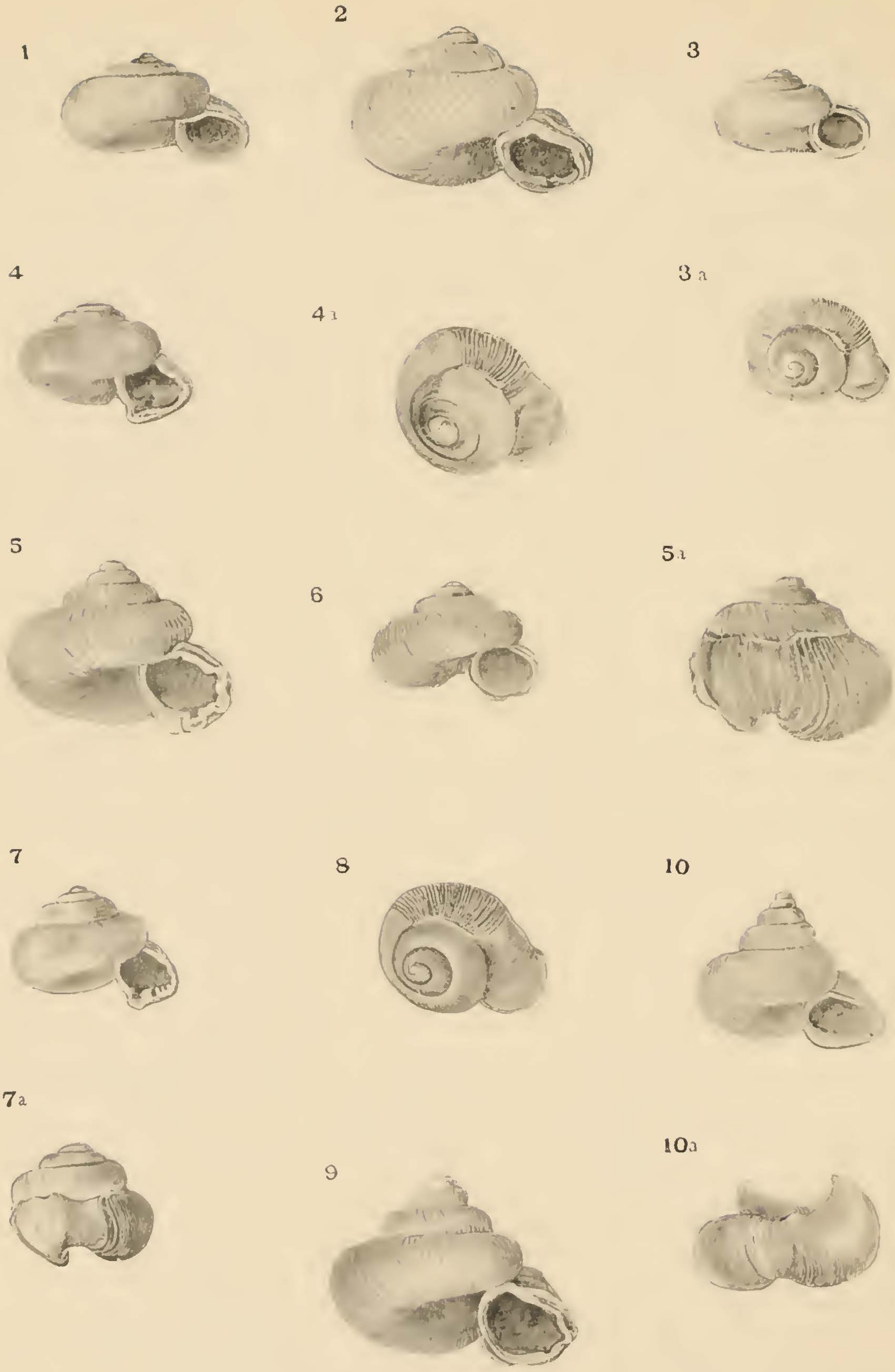
Vallonia humilis, Hutton. N.W. Himalaya.

Fig. 5. Jaw, × 175.

5 *a*. Centre and admedian teeth of radula.

5 *b*. Marginal teeth, × 1100.

PLATE CLI.



ALYCÆUS.

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PLATE CLI.

[Part XII.—*December* 1914.]

Fig. 1.	ALYCÆUS GLABER, W. Blf., ×4·5.	Akyab.
2.	—— SUCCINEUS, W. Blf., ×12.	Arakan.
3, 3 *a*.	—— ARMILLATUS, Bs., ×12.	Pegu.
4, 4 *a*.	—— NITIDUS, W. Blf., ×8.	Arakan.
5, 5 *a*.	—— VULCANI, W. Blf., ×8.	Burma.
6.	—— AVÆ, W. Blf., ×8.	Ditto.
7, 7 *a*.	—— KURZIANUS, Theob. & Stol., ×8.	Pegu.
8.	—— HUMILIS, W. Blf., ×12.	Ditto.
9.	—— RICHTHOFENI, W. Blf., ×12.	Moulmein.
10, 10 *a*.	—— SPRATTI, G.-A., ×4·5.	Burma.

CATHAICA & ZONITOIDES.

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PLATE CLII.

[Part XII.—*December* 1914.]

Cathaica hookeri, n. sp. Darjiling.

Fig. 1. Shell, front view, × 1·5.

1 *a*. Ditto, from above, × 1·5.

1 *b*. Extremity of the foot, side view, × 4·5.

1 *c*. Ditto, showing the sole, × 4·5.

1 *d*. The generative organs, × 8.

1 *e*. Dart-sac, × 24.

1 *f*. Ditto, × 8.

1 *g*. Jaw, × 12·4.

1 *h*. Centre and admedian teeth of the radula. Centre, with 1, 2, and 3 and 11, 12, 13. Much enlarged.

1 *i*. Buccal mass (*b*) with retractor muscle, and part of intestine (*i*), × 4·5.

Zonitoides notabilis, Sykes. Ceylon.

Fig. 2. Animal, view of left side with shell, × 8.

2 *a*. Ditto, head and part of mantle, right side, × 8.

2 *b*. Ditto, visceral sac showing position of penis and dark under wall of the branchial sac, × 4·5.

2 *c*. Jaw, × 58.

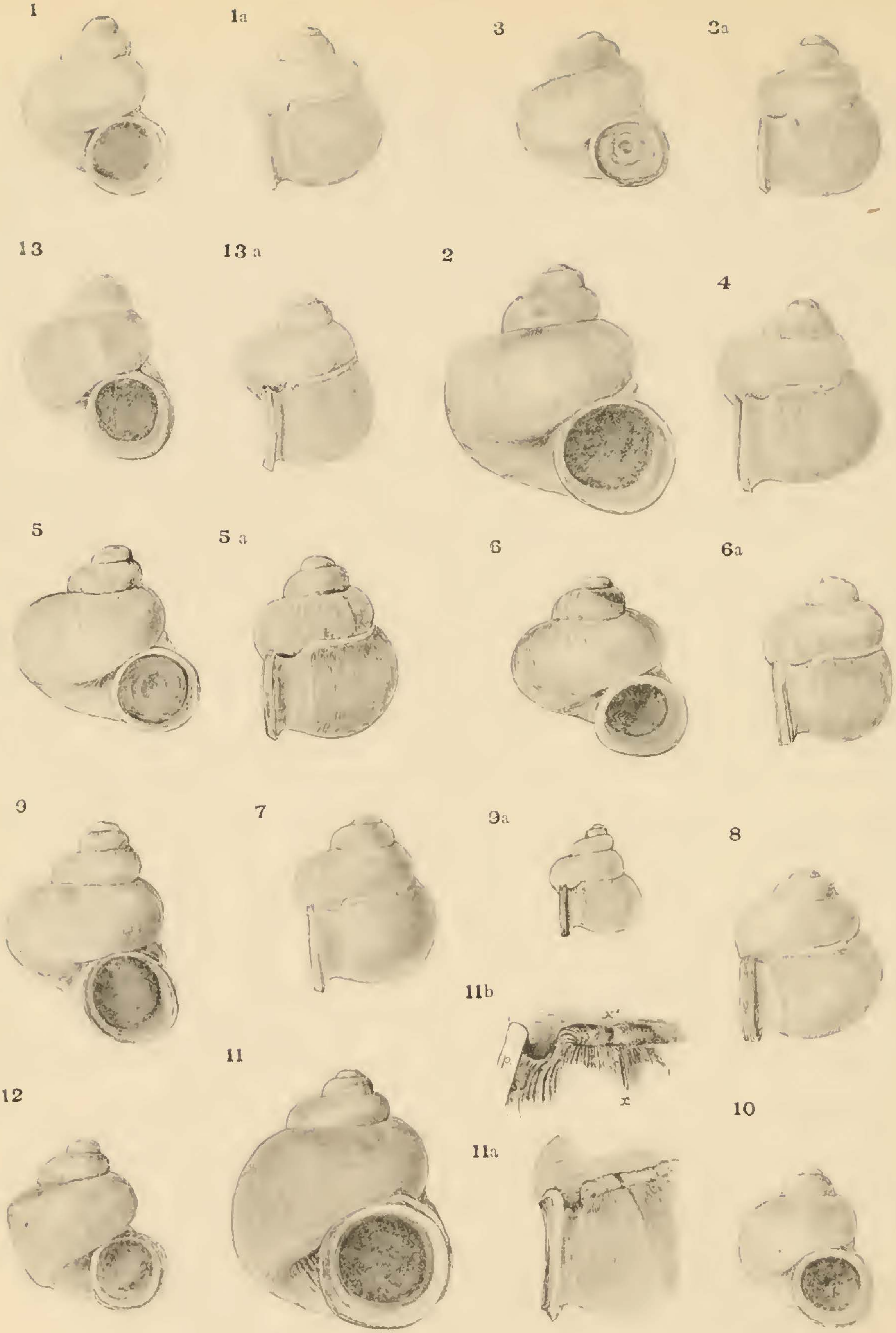
2 *d*. Part of generative organs, showing penis and dart-sac, × 24.

2 *e*. Part of same detached, spermatheca, × 24.

2 *f*. Ditto, another view of penis and dart-sac, × 24.

2 *g*. Genitalia, three figures showing different views of.

b, buccal mass: *d*, dart-sac; *i*, intestine; *gen.ap*, generative aperture; *h*, heart; *ov*. ovotestis; *p*, penis; *r.m.p*, retractor muscle of penis; *sp*. spermatheca; *vd*, vas deferens.



ALYCÆUS (DIORYX).

H. H. Godwin-Austen Del

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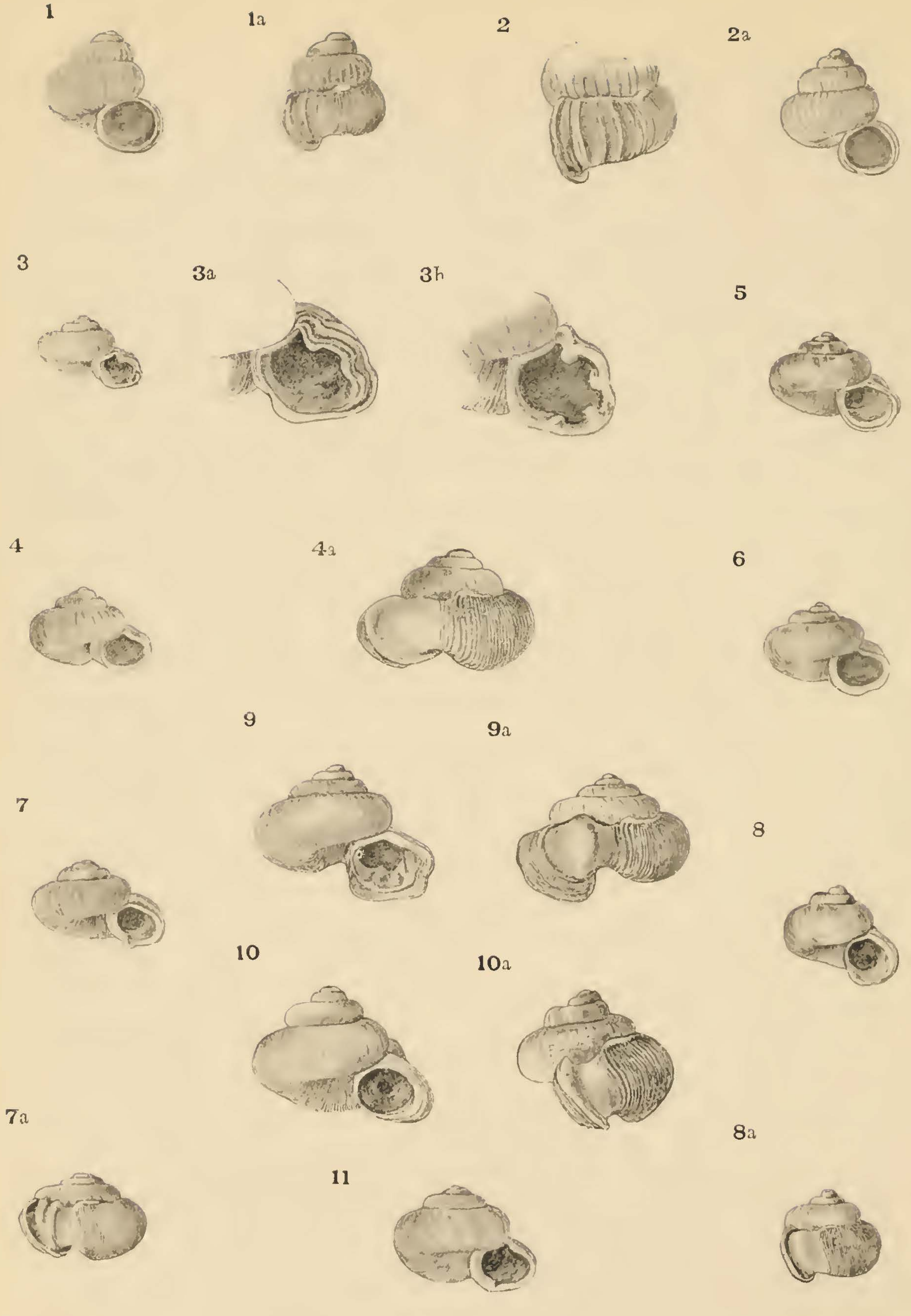
PLATE CLIII.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	ALYCÆUS (DIORYX) URNULA, Bs., × 7.	Darjiling.
2.	—— (——) ——, large variety, × 7.	W. Bhutan.
3, 3 *a*.	—— (——) ——, var. PISUM, × 7.	Jaintia Hills.
4.	—— (——) ——, var. DAFLAENSIS, × 7.	Dafla Hills.
5, 5 *a*.	—— (——) ——, var. ANGHAMIENSIS, × 7.	Naga Hills.
6, 6 *a*.	—— (——) ——, Ditto type, × 7.	Japvo Pk., Naga Hills.
7.	—— (——) ——, var. PISUM, × 7.	West Khasi.
8.	—— (——) ——, var. GLOBOSUS, × 7.	E. Assam.
9, 9 *a*.	—— (——) URCEOLUS, n. sp., × 7 & 4.	Abor Hills.
10.	—— (——) URNULA, Bs., var., × 7.	Munipur.
11, 11 *a*.	—— (——) AMPHORA, Bs., × 7.	Moulmein.
11 *b*.	—— (——) ——, sutural tube, × 10·7.	
12.	—— (——) FEDDENIANUS, Theobald, × 7.	Upper Salwin.
13, 13 *a*.	—— (——) PINGOUNGENSIS, G.-A., × 7.	Burma.



ALYCÆUS.

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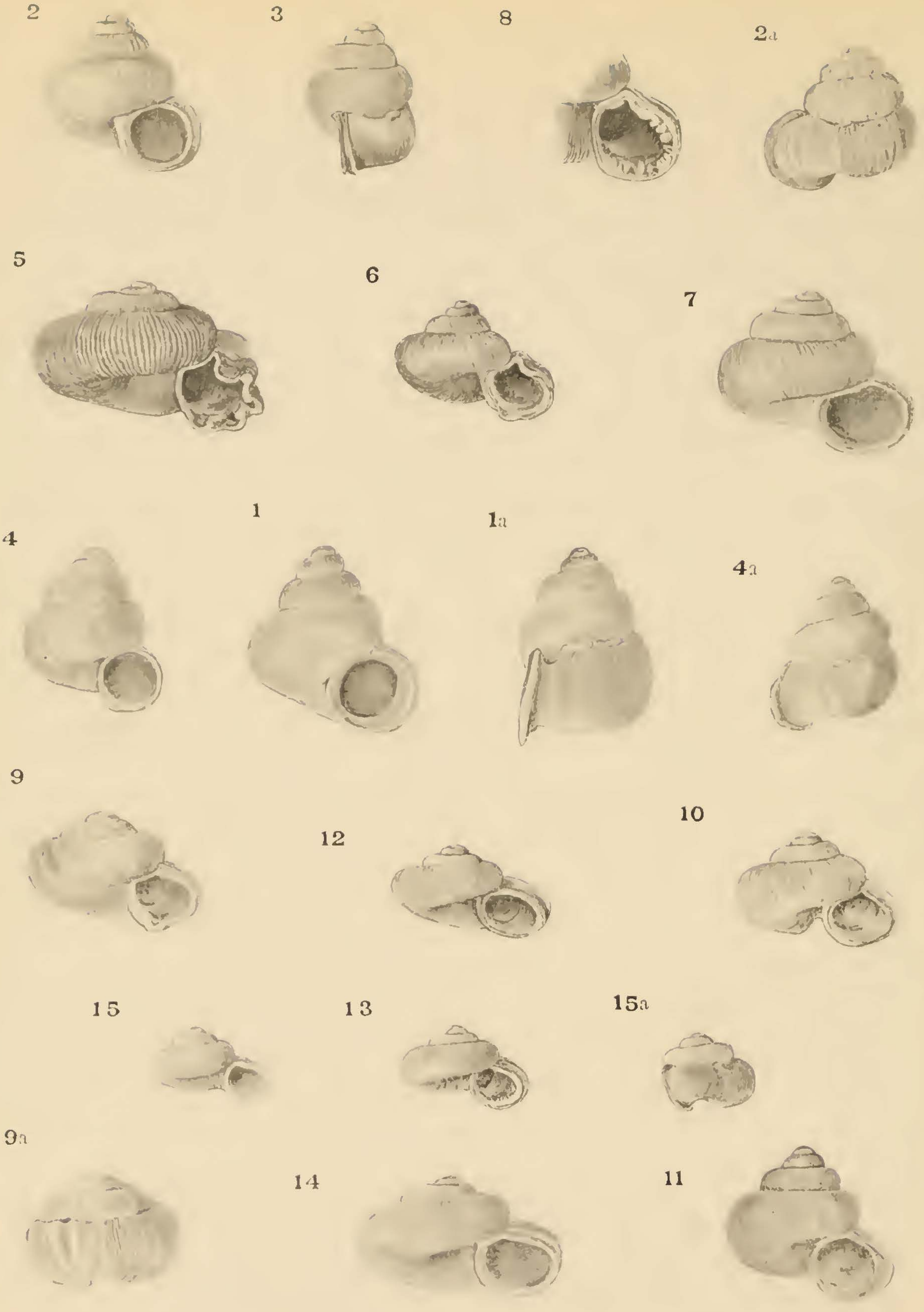
PLATE CLIV.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	ALYCÆUS (CYCLORYX) CONSTRICTUS, Bs., ×8.	Darjiling.
2, 2 *a*.	—— (——) COSTATUS, n. sp., ×8.	Dafla Hills.
3, 3 *a*.	—— CRISPATUS, G.-A., var. RYWUKENSIS, ×8 & 12·5.	Garo Hills.
3 *b*.	—— ——, ×12·5.	Ditto.
4, 4 *a*.	—— SYLHETICUS, n. sp., ×8.	South Sylhet.
5.	—— NEGLECTUS, n. sp., ×4·5.	Dafla Hills.
6.	—— ROTUNDATUS, n. sp., ×4·5.	Ditto.
7, 7 *a*.	—— BIRUGOSUS, n. sp., var., ×8.	Jaintia Hills.
8, 8 *a*.	—— SUBINFLATUS, n. sp., ×4·5.	N.E. Munipur.
9, 9 *a*.	—— OBSCURUS, n. sp., ×8.	Cherra Poonjee.
10, 10 *a*.	—— TERIAENSIS, n. sp., ×8.	Teria Ghat.
11.	—— CANALICULUS, n. sp., ×8.	Ditto.



ALYCÆUS.

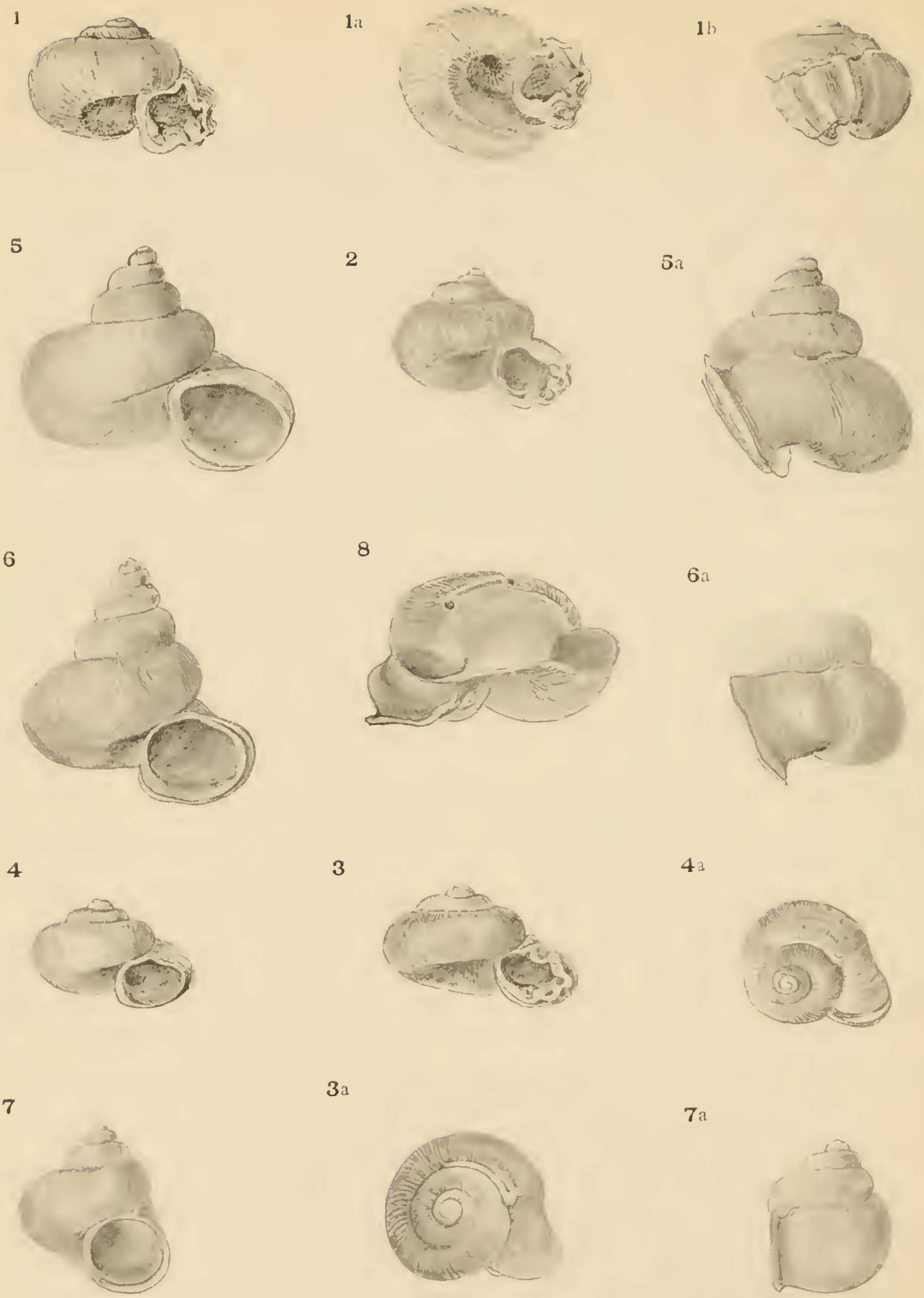
H. H. Godwin-Austen, Del.

Watford Engraving Co. Sculp.

PLATE CLV.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	Alycæus labrirubidum, n. sp., × 15.	Moulmein.
2, 2 *a*.	—— difficilis, n. sp., × 8.	Shan Hills.
3.	—— tenellus, n. sp., × 8.	Ditto.
4, 4 *a*.	—— ——, × 8.	Ditto.
5.	—— cucullatus, Theobald, × 8.	Ditto.
6.	—— logtakensis, n. sp., × 8.	Munipur.
7.	—— vestitus, W. Blf., var. akyabensis, × 8.	Arakan.
8.	—— sculptilis, Bs., × 12.	Burma.
9, 9 *a*.	—— birugosus, G.-A., var. minor, × 12.	Garo Hills.
10.	—— theobaldi, W. Blf., var. solidus, × 8.	Ditto.
11.	—— perplexus, n. sp., × 8.	Khasi Hills.
12.	—— notus, n. sp., × 8.	Shan Hills.
13.	—— omissus, n. sp., × 8.	Eastern Shan.
14.	—— woodthorpi, n. sp., × 8.	Shan Hills.
15, 15 *a*.	—— nattoungensis, n. sp., × 8.	Ditto.



ALYCÆUS.

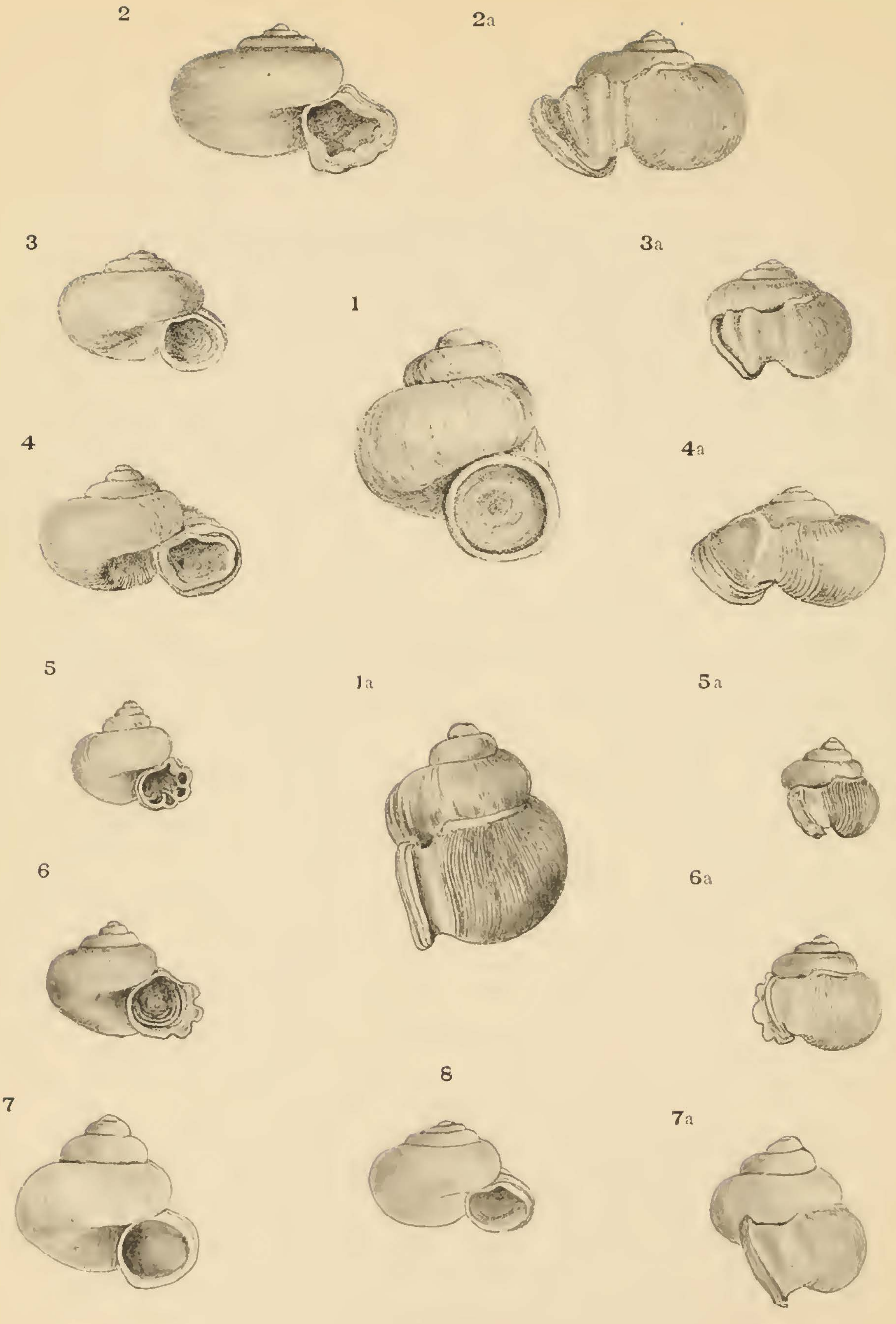
H. H. Godwin-Austen, Del.

Watford Engraving Co. Sculp.

PLATE CLVI.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*, 1 *b*.	ALYCÆUS MAGNIFICUS, n. sp., × 8.	Abor Hills.
2.	—— YAMNEYENSIS, n. sp., × 4·5.	Ditto.
3, 3 *a*.	—— PANGGIANA, n. sp., × 4·5.	Ditto.
4, 4 *a*.	—— SIBBUMENSIS, n. sp., × 4·5.	Ditto.
5, 5 *a*.	—— GIBBUS, Fér., × 4·5.	Cochin China.
6, 6 *a*.	—— PYRAMIDALIS, Bs., × 4·5.	Tenasserim.
7, 7 *a*.	—— (DIORYX) COCHINENSIS, n. sp.?, × 4·5.	Cochin China.
8.	—— STYLIFER, Bs., × 8; sutural tube, as seen from the inside.	Sikkim.



ALYCÆUS.

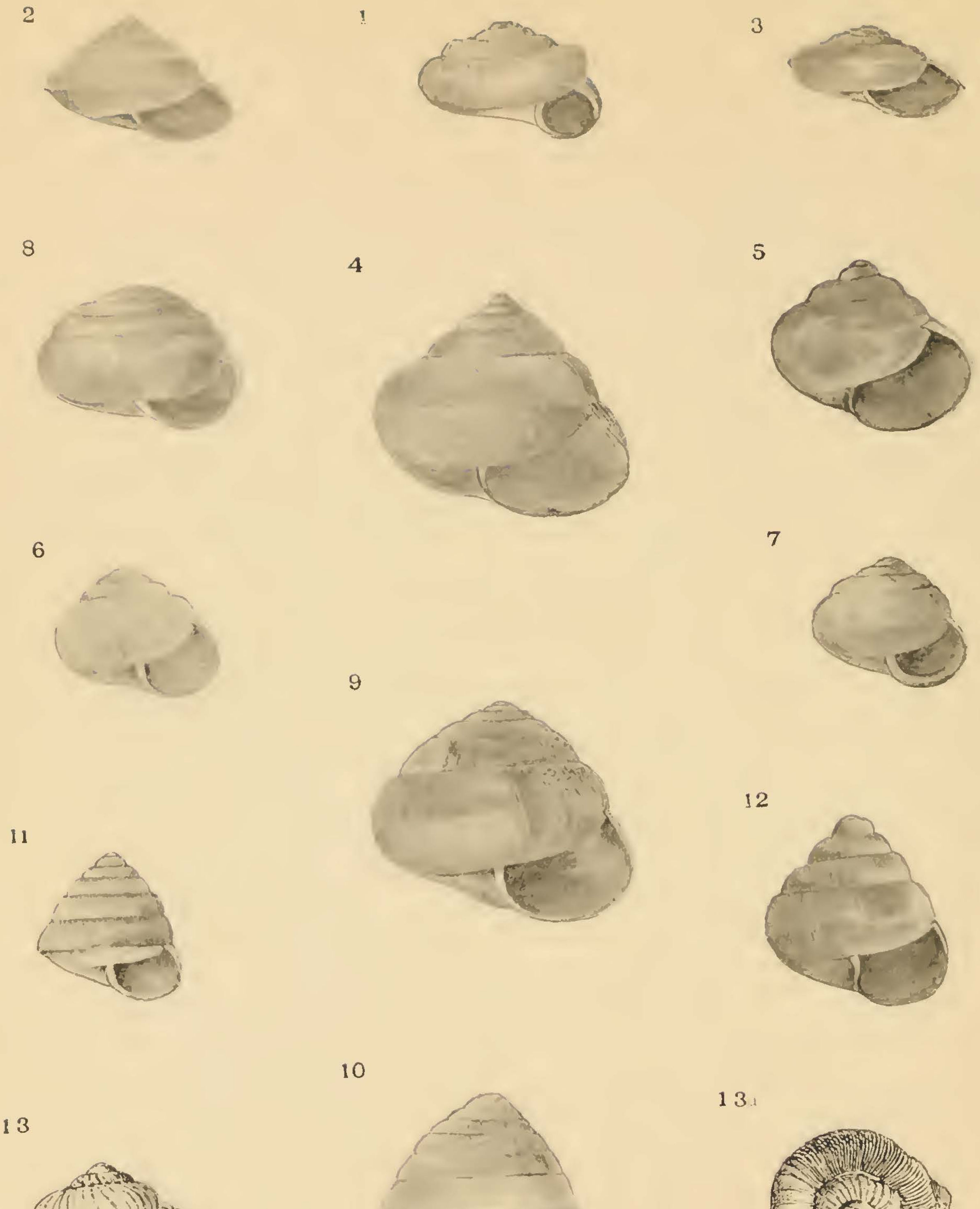
H. H. Godwin-Austen, Del.

Watford Engraving Co Sculp.

PLATE CLVII.

[Part XII.—*December* 1914.]

Fig. 1, 1 *a*.	ALYCÆUS (DIORYX) GLOBULOSUS, n. sp., × 8.	Abor Hills.
2, 2 *a*.	—— DUOCULMEN, n. sp., × 8.	Ditto.
3, 3 *a*.	—— DUORUGOSUS, n. sp., × 8.	Naga Hills.
4, 4 *a*.	—— OAKESI, n. sp., × 12.	Abor Hills.
5, 5 *a*.	—— CHANJUKENSIS, n. sp., × 4·5.	Ditto.
6, 6 *a*.	—— LUYORENSIS, n. sp., × 4·5.	Ditto.
7, 7 *a*.	—— VARIUS, n. sp., × 8.	Lhota Naga.
8.	—— MUTATUS, G.-A., × 8.	Dafla Hills.



VALLONIA, KALIELLA, PSEUDOKALIELLA, SITALA,

MACROCHLAMYS, AND ALYCÆUS.

H. H. Godwin-Austen. Del.

Watford Engraving Co. Sculp

PLATE CLVIII.

[Part XII.—*December* 1914.]

Fig. 1.	VALLONIA ? HUMILIS, Hutton, × 12.	N.W. Himalaya.
2.	PSEUDOKALIELLA DIHINGENSIS, n. sp., × 4·5.	Eastern Assam.
3.	—— AKHAENSIS, n. sp., × 4·5.	Eastern Bhutan.
4.	SITALA PEALII, n. sp., × 8.	Eastern Assam.
5.	—— SUBINJUSSA, n. sp., × 8.	Nilgiris.
6.	—— VAGA, n. sp., × 8.	Ditto.
7.	KALIELLA MINUTISSIMA, n. sp., × 12.	Ditto.
8.	HELIX (ENDODONTA ?) ROTUNDUS, n. sp., × 8.	Ditto.
9.	MACROCHLAMYS SILCURIENSIS, n. sp., × 8.	Cachar.
10.	KALIELLA THOLUS, n. sp., × 8.	Nilgiris.
11.	—— HENZADAENSIS, n. sp., × 8.	Pegu.
12.	—— RADICITA, n. sp., × 12.	Nilgiris.
13, 13 *a*.	ALYCÆUS CRISPATUS, G.-A., var. MAKARSÆ, G.-A., × 8.	N. Khasi.

PART VII.] [OCTOBER 1897.

LAND AND FRESHWATER MOLLUSCA

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